AV-28WFT1EPG
AV-28WFT1EPS
AV-28WFT1EKS
AV-28WFT1EIS

JVC

# SERVICE MANUAL

## COLOUR TELEVISION

| BASIC CHASSIS |
| --- |
| JK |

# AV-28WFT1EPG/A / AV-28WFT1EPS/A
# AV-28WFT1EIS/A / AV-28WFT1EKS/A

Supplementary

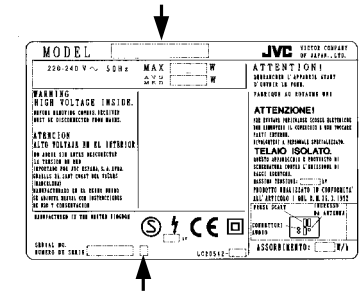
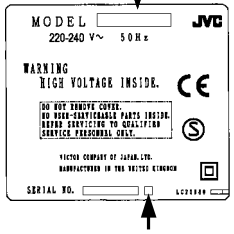
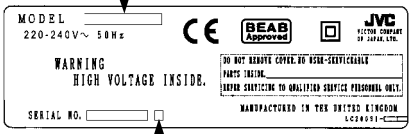
**The following items for the A models were changed from those of the B models. Therefore, this service manual describes only the items which differ from those of the B service manual. For details other than those described in this manual, please refer to the B service manual(No.51694, Feb. 2000).**

■**MODEL DIFFERENCE**

| A Model | B Model |
| --- | --- |
| AV-28WFT1EPG/A / AV-28WFT1EPS/A<br>AV-28WFT1EIS/A / AV-28WFT1EKS/A | AV-28WFT1EPG / AV-28WFT1EPS<br>AV-28WFT1EIS / AV-28WFT1EKS |

## HOW TO IDENTIFY MODELS

While referring to the illustration given below, identify model name on the rating label affixed to the rear cover.

| | | AV-28WFT1EPG/A<br>AV-28WFT1EPS/A | AV-28WFT1EIS/A | AV-28WFT1EKS/A |
| --- | --- | --- | --- | --- |
| ⚠ | Rating label | LC20780-001A-U<br>LC20780-002A-U | LC20080-016A-U | LC20091-028A-U |
| | | AV-28WFT1EPG<br>AV-28WFT1EPS<br>  <br>Indicated "A" | AV-28WFT1EIS<br>  <br>Indicated "A" | AV-28WFT1EKS<br>  <br>Indicated "A" |

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No.51694C
Nov. 2000

AV-28WFT1EPG
AV-28WFT1EPS
AV-28WFT1EIS
AV-28WFT1EKS

# CHANGED ITEMS

## USING PW BOARD DIFFERENCE TABLE (Page 38)

| Model / PWB ASS'y | AV-28WFT1EPG<br>AV-28WFT1EPS<br>AV-28WFT1EIS<br>No.51694 | AV-28WFT1EPG/A<br>AV-28WFT1EPS/A<br>AV-28WFT1EIS/A<br>No.51694D | AV-28WFT1EKS<br>No.51694 | AV-28WFT1EKS/A<br>No.51694D |
|---|---|---|---|---|
| **MAIN PWB** | SJK-1702A-U2 | **SJK-1703A-U2** | SJK-1902A-U2 | **SJK-1905A-U2** |
| **POWER & DEF. PWB** | SJK-2502A-U2 | **SJK-2506A-U2** | SJK-2502A-U2 | **SJK-2506A-U2** |
| **CRT SOCKET PWB** | SJK-3502A-U2 | **SJK-3503A-U2** | SJK-3502A-U2 | **SJK-3503A-U2** |
| **FRONT CONTOROL PWB** | SJK-8502A-U2 | **SJK-8505A-U2** | SJK-8502A-U2 | **SJK-8505A-U2** |
| **AV SEL. PWB** | SJK0S701A-U2 | **SJK0S703A-U2** | SJK0S901A-U2 | **SJK0S904A-U2** |

## PARTS DIFFERENCE TABLE

| MODEL No. | | AV-28WFT1EPG<br>AV-28WFT1EPS<br>AV-28WFT1EIS<br>AV-28WFT1EKS<br>No.51694 | AV-28WFX1EPG/A<br>AV-28WFT1EPS/A<br>AV-28WFT1EIS/A<br>AV-28WFT1EKS/A<br>No.51694D | PARTS NAME | DESCRIPTION |
|---|---|---|---|---|---|
| ⚠ | REF. No. | PARTS No. | PARTS No. | | |
| **EXPLODED VIEW PARTS LIST (Page 40)** | | | | | |
| ⚠ | L01 | QQW0070-001 | **QQW0100-001** | DEG COIL | Not interchangeable |
| ⚠ | L03 | CELD904-001 | ———— | ROTATION COIL | Delete |
| ⚠ | V01 | W66ERF031X013 | **W66QDE891X923** | CRT(ITC) | Not interchangeable |
| ⚠ | T2551 | QQH0065-002-I2 | **QQH0089-002-I2** | FBT | ↑ |
| ⚠ | 6 | QNZ0407-002 | **QNZ0369-003** | ANODE WIRE | ↑ |
| ⚠ | 11 | LC20542-003A-U (AV-28WFT1EPG) | **LC20780-001A-U** (AV-28WFT1EPG/A) | RATING LABEL | ↑ |
| ⚠ | 11 | LC20542-004A-U (AV-28WFT1EPS) | **LC20780-002A-U** (AV-28WFT1EPS/A) | RATING LABEL | ↑ |
| ⚠ | 11 | LC20542-007A-U (AV-28WFT1EIS) | **LC20080-016A-U** (AV-28WFT1EIS/A) | RATING LABEL | ↑ |
| ⚠ | 11 | LC20542-007A-U (AV-28WFT1EKS) | **LC20091-028A-U** (AV-28WFT1EKS/A) | RATING LABEL | ↑ |
| ⚠ | 100 | LC10662-005A-U (AV-28WFT1EPG) | **LC10662-005B-U** (AV-28WFT1EPG/A) | FRONT CABINET ASSY | ↑ |
| ⚠ | 100 | LC10662-006A-U (AV-28WFT1EPS/EIS) | **LC10662-006C-U** (AV-28WFT1EPS/A/EIS/A) | FRONT CABINET ASSY | ↑ |
| ⚠ | 100 | LC10662-003C-U (AV-28WFT1EKS) | **LC10662-006C-U** (AV-28WFT1EKS/A) | FRONT CABINET ASSY | ↑ |
| **PACKING PARTS LIST (Page 57)** | | | | | |
| | | ———— | **LCT0931-001A-U** | INST SHEET | Addition |

# PARTS DIFFERENCE TABLE

**AV-28WFT1EPG/A / AV-28WFT1EPS/A / AV-28WFT1EIS/A**
**PRINTED WIRING BOARD PARS LIST**
**MAIN PW BOARD ASS'Y (Page 43)**

| PW BOARD No. | | SJK-1702A-U2 | SJK-1703A-U2 | PARTS NAME | DESCRIPTION |
|---|---|---|---|---|---|
| ⚠ | Symbol No. | PARTS No. | PARTS No. | | |
| | C1726 | NDC21HJ-391X | **NDC21HJ-821X** | C CAP. | 820Pf 50V J |

**AV-28WFT1EKS/A**
**PRINTED WIRING BOARD PARS LIST**
**MAIN PW BOARD ASS'Y (Page 52)**

| PW BOARD No. | | SJK-1902A-U2 | SJK-1905A-U2 | PARTS NAME | DESCRIPTION |
|---|---|---|---|---|---|
| ⚠ | Symbol No. | PARTS No. | PARTS No. | | |
| | C1726 | NDC21HJ-391X | **NDC21HJ-821X** | C CAP. | 820pF 50V J |

**AV-28WFT1EPG/A / AV-28WFT1EPS/A / AV-28WFT1EIS/A / AV-28WFT1EKS/A**
**POWER & DEF. PW BOARD ASS'Y(Page 45~46)** **(1/2)**

| PW BOARD No. | | SJK-2502A-U2 | SJK-2506A-U2 | PARTS NAME | DESCRIPTION |
|---|---|---|---|---|---|
| ⚠ | Symbol No. | PARTS No. | PARTS No. | | |
| | R2403 | QRE141J-332Y | **QRA14CF-3091Y** | CR | 3.09kΩ 1/4W F |
| | R2414 | QRE121J-3R9Y | **QRE121J-100Y** | CR | 10Ω 1/2W J |
| | R2467 | QRG039J-120 | **QRL039J-330** | OM R | 33Ω 3W J |
| | R2551 | QRT039J-3R3 | **QRT039J-1R5** | MF R | 1.5Ω 3W J |
| | R2552 | QRT039J-3R3 | **QRT039J-1R5** | MF R | 1.5Ω 3W J |
| ⚠ | R2554 | QRZ9021-1R5 | **QRZ9022-R47** | FR | 0.47Ω 1W J |
| ⚠ | R2556 | QRZ9011-4R7 | ——— | FUSI. RESISTER | Delete |
| ⚠ | R2557 | QRZ9021-100 | ——— | FUSI. RESISTER | Delete |
| | C2461 | QETN2AM-475Z | **QEZ0195-475Z** | E CAP. | 4.7μF 50V M |
| ⚠ | C2521 | QFZ0200-352 | **QFZ0200-282** | MPP CAP. | 2800pF 1.5kVH ±3% |
| ⚠ | C2523 | QFP32GJ-223 | **QFP32GJ-183** | PP CAP. | 0.018μF 400V J |
| | C2524 | QFM72DK-104 | **QFM72DK-563** | M CAP. | 0.056MF 200V K |
| | C2525 | QFZ0199-354 | ——— | MPP CAP. | Delete |
| | C2526 | QFZ0199-254 | **QFZ0197-304** | MPP CAP. | 0.3μF 250V J |
| | C2527 | QEHR2EM-475Z | **QEHR2EM-475Z** | E CAP | 4.7μF 250V M |
| | C2528 | QFZ0199-683 | ——— | MPP CAP. | Delete |
| | C2529 | QFZ0199-104 | **QFZ0197-473** | MPP CAP. | 0.047μF 250V J |
| | C2532 | QFZ0199-334 | ——— | MPP CAP. | Delete |
| | C2542 | QFZ0199-204 | **QFZ0197-434** | MPP CAP. | 0.43μF 250V J |
| | C2543 | QFZ0199-154 | **QFZ0197-184** | MPP CAP. | 0.18μF 250V J |
| | C2561 | QFLC1HJ-683Z | **QFV71HJ-184Z** | M CAP | 0.18μF 50V J |
| | C2566 | QFZ0117-1002 | ——— | MPP CAP | Delete |

| POWER & DEF. PW BOARD ASS'Y(Page 45~46) | | | | | (2/2) |
|---|---|---|---|---|---|
| PW BOARD No. | | SJK-2502A-U2 | SJK-2506A-U2 | PARTS NAME | DESCRIPTION |
| ⚠ | Symbol No. | PARTS No. | PARTS No. | | |
| | T2521 | CE42549-001J1 | ——— | BRIGE COIL | Delete |
| ⚠ | T2551 | QQH0065-002-I2 | **QQH0089-001** | FBT | |
| | T2561 | QQR0898-001 | **QQH0898-001** | DEF.TRANSF. | |
| | L2521 | QQLZ028-101 | **QQLZ028-501** | CHOKE COIL | |
| | D2403 | 1SS133-T2 | ——— | SI.DIODE | Delete |
| | D2555 | MTZJ12C-T2 | ——— | ZENER DIODE | Delete |
| | D2556 | MTZJ12C-T2 | ——— | ZENER DIODE | Delete |
| | K2501 | CE41433-001Z | ——— | BEADE CORE | Delete |
| | K2502 | CE41433-001Z | ——— | BEADE CORE | Delete |
| ⚠ | PC2901 | TLP721F(D4-GR) | **TLP421F/D4-GR/** | I.C. (PH.COUPLER) | |

JVC
**VICTOR COMPANY OF JAPAN, LIMITED**
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28WFT1EPGA-U #003 28WFT1EPSA-U #003
28WFT1EISA-U #003 28WFT1EKSA-U #003

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VP0011
DP2050

AV28S2EKGR / AV28S2EKBL
AV28S2EIGR / AV28S2EIBL

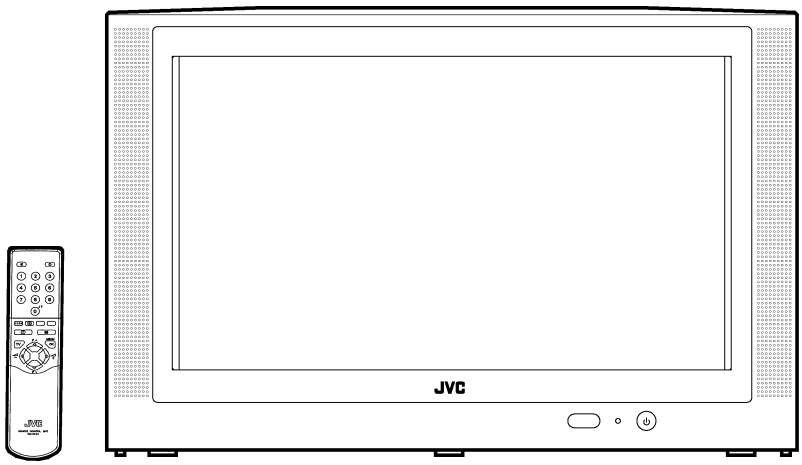
JVC

# SERVICE MANUAL

## COLOUR TELEVISION

| BASIC CHASSIS |
| --- |
| JK |

## AV28S2EKGR / AV28S2EKBL
## AV28S2EIGR / AV28S2EIBL

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No.51694
Feb. 2000

# SPECIFICATIONS

| Item | Content | |
|---|---|---|
| | **AV28S2EKGR**<br>**AV28S2EKBL** | **AV28S2EIGR**<br>**AV28S2EIBL** |
| **Dimensions ( W × H × D )** | 800mm × 500mm × 496mm | ← |
| **Mass** | 41kg | ← |
| **TV RF System** | CCIR ( I ) | ← |
| **Colour System** | PAL / NTSC (Only in EXT mode) | ← |
| **Stereo System** | NICAM ( I ) | ← |
| **Teletext System** | FLOF (Fastext)<br>WST(Standard system) | ←<br>← |
| **Receiving Frequency** | | |
| **VHF** | ———— | 47MHz ～ 470MHz |
| **UHF** | 470MHz ～ 862MHz | 470MHz ～ 862MHz |
| **Intermediate Frequency** | | |
| **VIF Carrier** | 38.9MHz ( I ) | ← |
| **SIF Carrier** | 32.9MHz (6.0MHz:I) | ← |
| **Colour Sub Carrier Freq.** | | |
| **PAL** | 4.43MHz | ← |
| **NTSC** | 3.58MHz / 4.43MHz | ← |
| **Power Input** | AC 220V～240V , 50Hz | ← |
| **Power Consumption** | 168W(Max) / 115W(Avg), | ← |
| **Aerial Input Term** | 75Ω unbalanced, Coaxial | ← |
| **Picture Tube** | Visible size : 66cm, Measured diagonally | ← |
| **High Voltage** | $30.0kV^{+1kV}_{-1.5kV}$ (at zero beam current) | ← |
| **Speaker** | 20cm × 4cm Oval type × 2 | ← |
| **Audio Output** | 7.5W + 7.5W | ← |
| **EXT-1/EXT-2/EXT-3 (Input / Output)** | 21-pin Euro connector<br>(SCART socket) | ← |
| **EXT-4 (Input) Video** | 1Vp-p 75Ω (RCA pin jack) | ← |
| **Audio(L/R)** | 500mVrms(-4dBs), High Impedance (RCA pin jack) | |
| **S / Video** | Y : 1Vp-p POSITIVE (Negative sync Provided, when terminated with 75Ω)<br>C : 0.286Vp-p<br>(Burst signal, when terminated with 75Ω) | |
| **AUDIO OUT (Variable)** | 0～1Vrms, Low Impedance<br>(RCA pin jack × 2) | ← |
| **Headphone jack** | Stereo mini jack ( $\phi$ 3.5mm ) | ← |
| **Remote Control Unit** | RM-C55 (AAA/R03 dry battery × 2) | ← |

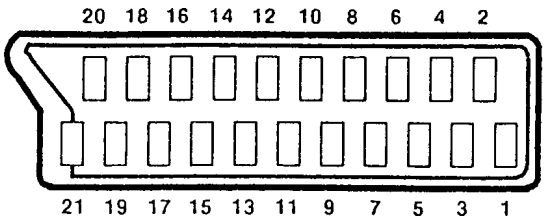
*Design & specifications are subject to change without notice.*

# ■21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

| Pin No. | Signal Designation | Matching Value | EXT-1 | EXT-2 | EXT-3 |
|---|---|---|---|---|---|
| 1 | AUDIO R output | 500mVrms(Nominal), Low impedance | ○ (TV OUT) | ○ (LINE OUT) | NC |
| 2 | AUDIO R input | 500mVrms(Nominal), High impedance | ○ | ○ | ○ |
| 3 | AUDIO L output | 500mVrms(Nominal), Low impedance | ○ (TV OUT) | ○ (LINE OUT) | NC |
| 4 | AUDIO GND | | ○ | ○ | ○ |
| 5 | GND (B) | | ○ | ○ | ○ |
| 6 | AUDIO L input | 500mVrms(Nominal), High impedance | ○ | ○ | ○ |
| 7 | B input | $700mV_{B-W}$, 75Ω | ○ | NC | NC |
| 8 | FUNCTON SW (SLOW SW) | Low : 0-3V, High : 8-12V, High impedance | ○ | ○ | ○ |
| 9 | GND (G) | | ○ | ○ | ○ |
| 10 | SCL3 | | NC | ○ | NC |
| 11 | G input | $700mV_{B-W}$, 75Ω | ○ | NC | NC |
| 12 | SDA3 | | NC | ○ | NC |
| 13 | GND (R) | | ○ | ○ | ○ |
| 14 | GND ($Y_S$) | | ○ | NC | NC |
| 15 | R / C input | R : $700mV_{B-W}$, 75Ω<br>C : $300mV_{P-P}$, 75Ω | ○ (only R) | ○ (only C) | ○ (only C) |
| 16 | Ys input | Low : 0 - 0.4, High : 1 - 3V, 75Ω | ○ | NC | NC |
| 17 | GND(VIDEO output) | | ○ | ○ | ○ |
| 18 | GND(VIDEO input) | | ○ | ○ | ○ |
| 19 | VIDEO output | $1V_{P-P}$(Negative going sync), 75Ω | ○ (TV) | ○ (LINE OUT) | NC |
| 20 | VIDEO / Y input | $1V_{P-P}$(Negative going sync), 75Ω | ○ | ○ | ○ |
| 21 | COMMON GND | | ○ | ○ | ○ |

[Pin assignment]



# SAFETY PRECAUTIONS

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.

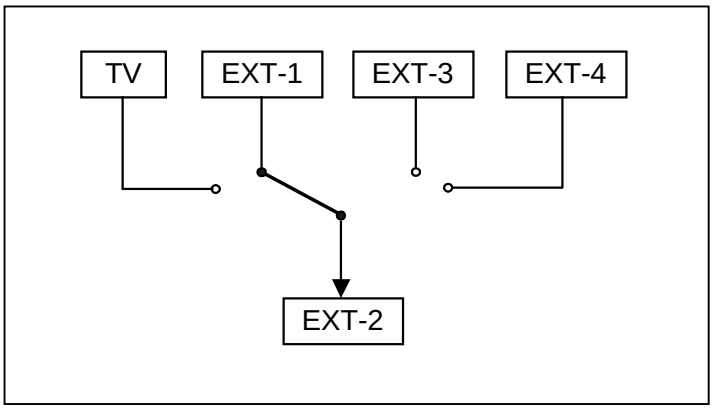
4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

# WARNING

1. The equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

# FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, FULL, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUB TITLE modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically.
- The TELETEXT SYSTEM has a built-in FASTEXT and WST system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Built-in ECO (ECONOMY, ECOLOGY) MODE.
  In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.




# MAIN DIFFERENCE PARTS LIST

| ⚠ | Model Name / Part Name | AV28S2EKGR | AV28S2EKBL | AV28S2EIGR | AV28S2EIBL |
|---|---|---|---|---|---|
| | MAIN PWB | SJK-1911A-U2 | ← | SJK-1711A-U2 | ← |
| | AV SEL. PWB | SJK0S911A-U2 | ← | SJK0S711A-U2 | ← |
| ⚠ | RATING LABEL | LC20091-020A-U | LC20091-025A-U | LC20091-039A-U | LC20091-040A-U |
| | EURO LABEL | AEM1052-016-E | AEM1052-015-E | AEM1052-013-E | AEM1052-002-E |
| ⚠ | INST BOOK | LCT0895-001A-U | ← | LCT0896-001A-U | ← |
| | REG. SHEET | AEM3148-001-E | ← | × | ← |
| | REMOCON WINDOW | LC31203-001A-C | LC31203-001B-C | LC31203-001A-C | LC30203-001B-C |
| | FRONT FRAME | LC11007-001B-U | LC11007-002B-U | LC11007-001B-U | LC11007-002B-U |

# SPECIFIC SERVICE INSTRUCTIONS

## DISASSEMBLY PROCEDURE

### REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the 10 screws marked "**A**" as shown in the Fig. 1.
3. Withdraw the rear cover toward you.

### REMOVING THE SIDE CONTROL JACK ASSEMBLY

- After removing the rear cover.

1. Remove the screw marked **B** as shown in the Fig.1.
2. While slightly raise the side control jack assembly, remove the 2 claws under the side control jack assembly.
3. Disconnect the connector "**SR**", "**SL**", "**S**", "**F**" and "**K**" as shown in Fig 2.

### REMOVING THE SIDE CONTROL PWB

- After removing the rear cover and side control jack assembly.

1. Remove the 3 claws "**C**" from back side of the side control jack assembly as shown in Fig.2.
2. Pull out the SIDE CONTROL PWB.

### REMOVING THE CHASSIS

- After removing the rear cover.

1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, take off the wire clamp, connectors etc.)

### REMOVING THE SPEAKER BOX

- After removing the rear cover.

1. Remove the 2 screws marked "**D**" as shown in Fig. 1.

**NOTE** : When removing the screws marked **D** of the speaker box assembly, remove the lower side screw first, and then remove the upper one.

2. Remove the 2 screws "E" attaching the speaker box.
3. Remove the 2 screws "F" attaching the speaker.
4. Follow the same steps when removing the other hand speaker.

### REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.

1. Remove the 3 screws marked "**G**" as shown in the Fig. 1.
2. Remove the claws marked "**H**" under the CHASSIS as shown in Fig. 3.
3. While raising the claw marked "**I**", remove the top of the AV TERMINAL BOARD slightly in the direction of arrow "**J**" as shown in Fig. 3.

### CHECKING THE PW BOARD

To check the back side of the PW Board.

1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

### WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

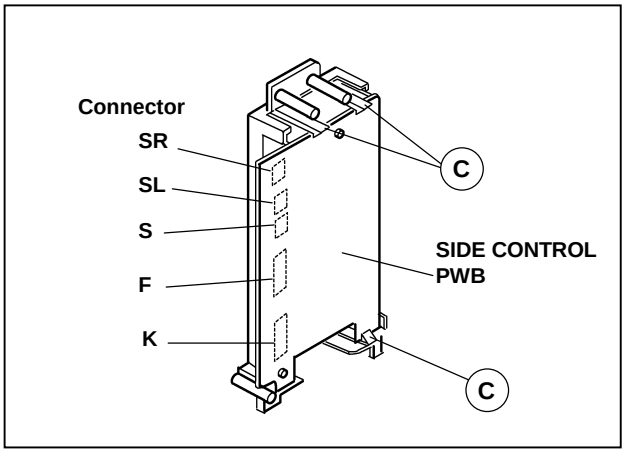



**Fig. 2**

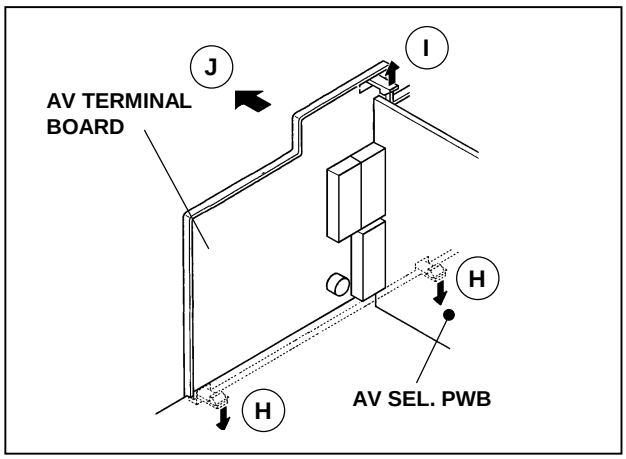



**Fig. 3**

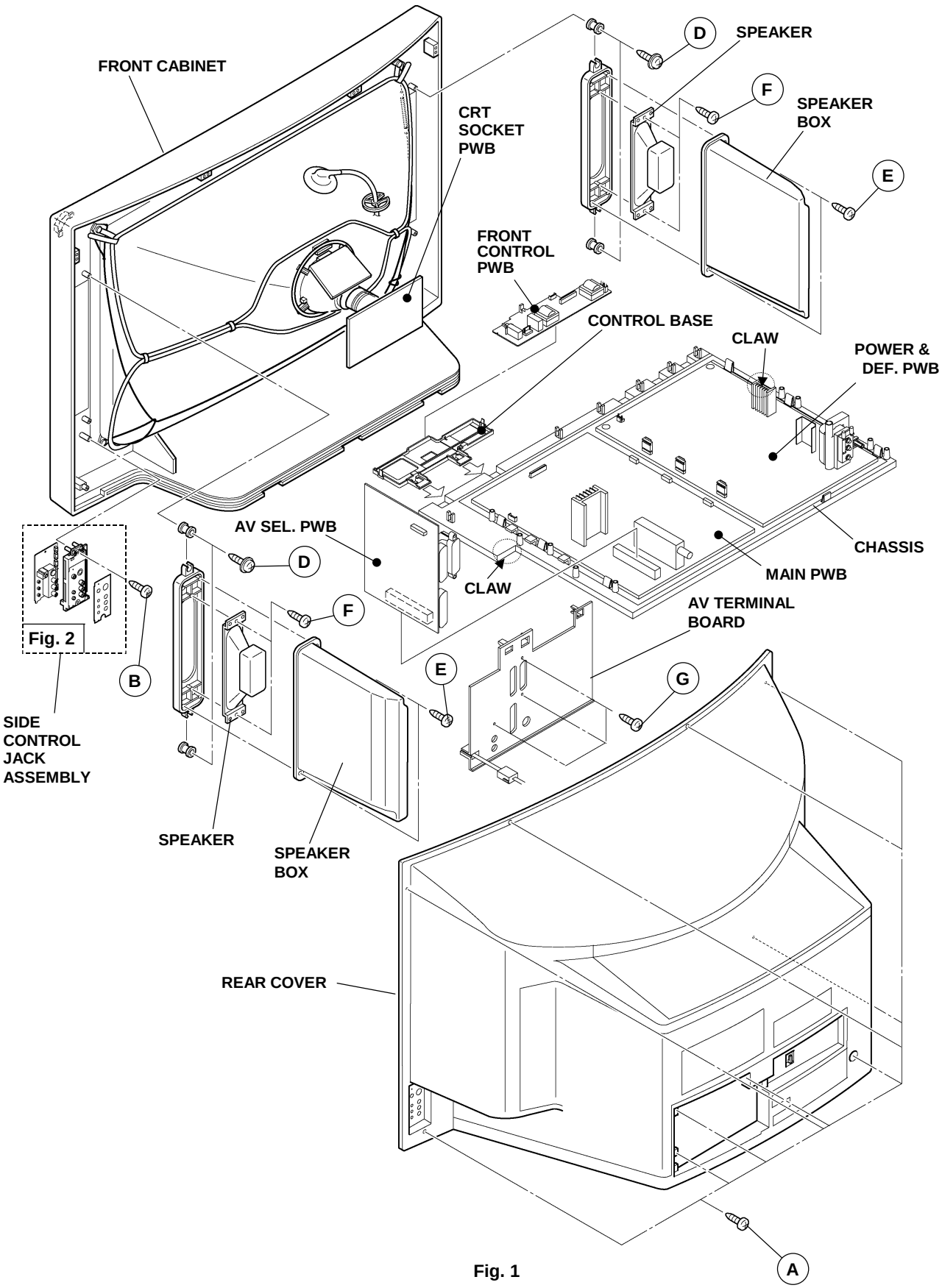

FRONT CABINET
CRT SOCKET PWB
D
SPEAKER
F
SPEAKER BOX
E
FRONT CONTROL PWB
CONTROL BASE
CLAW
POWER & DEF. PWB
AV SEL. PWB
D
CLAW
CHASSIS
MAIN PWB
F
AV TERMINAL BOARD
Fig. 2
B
E
G
SIDE CONTROL JACK ASSEMBLY
SPEAKER
SPEAKER BOX
REAR COVER
A

Fig. 1

## REMOVING THE CRT

* Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.,

1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.5.
3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.

- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.

- The CRT should be assembled according to the opposite sequence of its dismounting steps.

* The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.
* About CRT Spacer
  An appropriate CRT spacer should be used in the corresponding CRT in accordance with the type of the CRT.
  When a CRT is replaced, special attention should be paid to this matter.

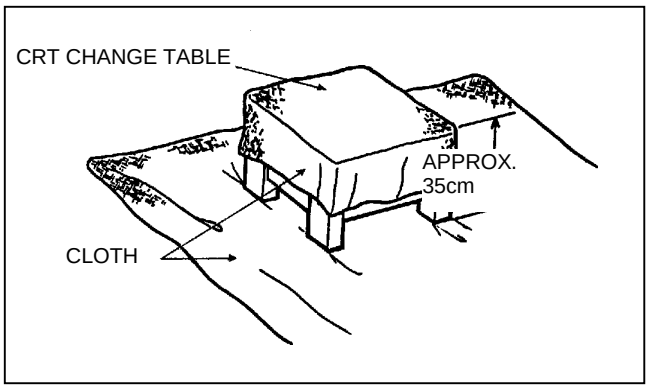



**Fig. 4**

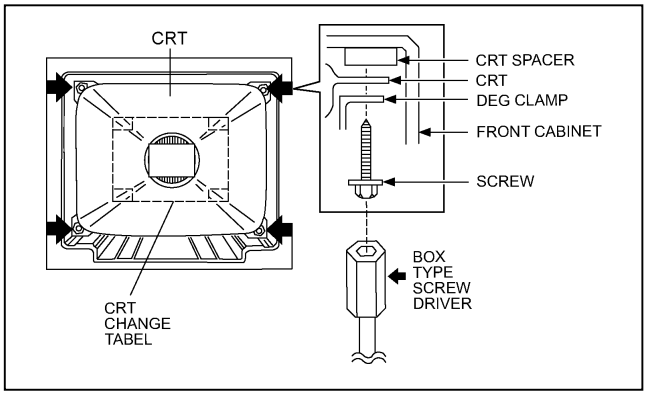



**Fig. 5**

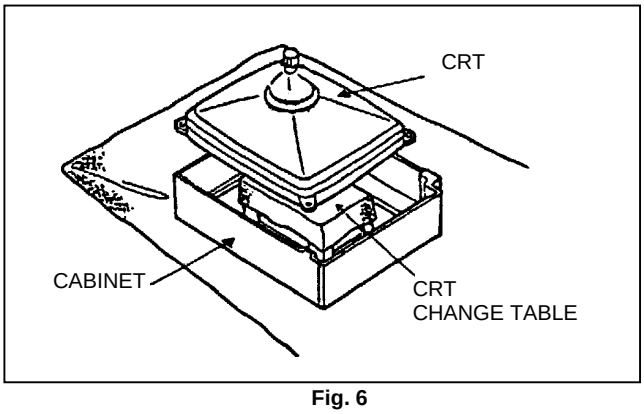



**Fig. 6**

## COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.7.
  Wipe around the anode button with clean and dry cloth. (Fig.7)
  Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.8)

**★ Silicon grease product No. KS - 650N**

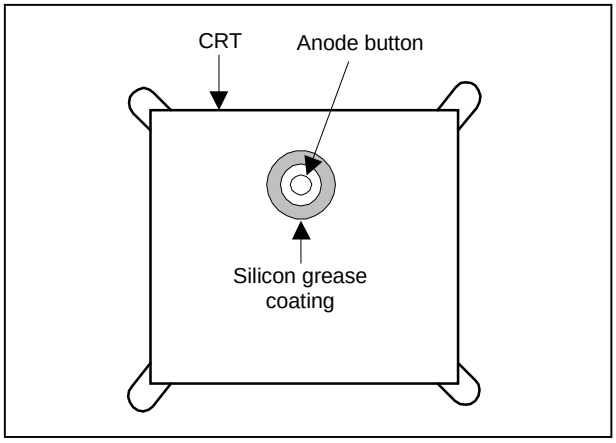



**Fig. 7**

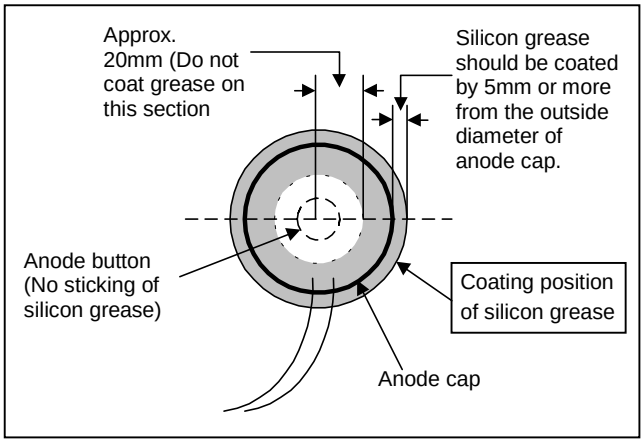



**Fig. 8**

# REPLACEMENT OF CHIP COMPONENT

## ■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

## ■ SOLDERING IRON

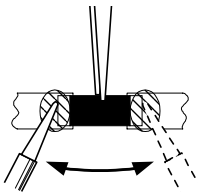
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

## ■ REPLACEMENT STEPS

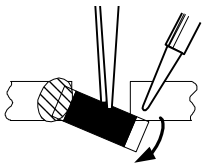
### 1. How to remove Chip parts

◆ **Resistors, capacitors, etc**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

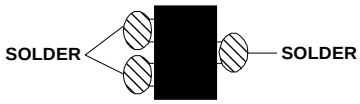


(2) Shift with tweezers and remove the chip part.

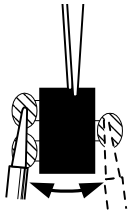


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply extra solder to each lead.




(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

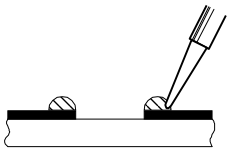


*Note : After removing the part, remove remaining solder from the pattern.*

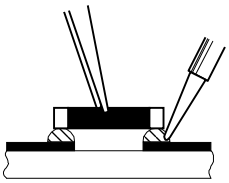
### 2. How to install Chip parts

◆ **Resistors, capacitors, etc**

(1) Apply solder to the pattern as indicated in the figure.

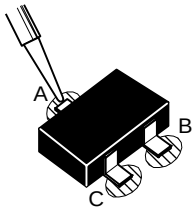


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

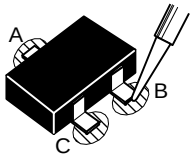


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.




(4) Then solder leads **B** and **C**.



# REPLACEMENT OF MEMORY ICs

## 1. Memory ICs

This TV use memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

## 2. Procedure for replacing memory ICs

| PROCEDURE |
|---|
| (1) **Power off**<br>Switch the power off and unplug the power cord from the wall outlet. |
| (2) **Replace ICs**.<br>Be sure to use memory ICs written with the initial data values. |
| (3) **Power on**<br>Plug the power cord into the wall outlet and switch the power on. |
| (4) **Check and set SYSTEM CONSTANT SET:**<br>✱ It must not adjust without signal.<br>1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously.<br>2) The SERVICE MENU screen of Fig. 1 will be displayed.<br>3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.<br>4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key.<br>5) Press the MENU key to memorize the setting value.<br>6) Press the INFORMATION key twice, and return to the normal screen. |
| (5) **Setting of receive channels**<br>Set the receive channel.<br>For setting, refer to the OPERATING INSTRUCTIONS. |
| (6) **User settings**<br>Check the user setting values of Table 2, and if setting value is different, set the correct value.<br>For setting, refer to the OPERATING INSTRUCTIONS. |
| (7) **Setting of SERVICE MENU**<br>Verify the setting items of the **SERVICE MENU** of Table 3, and reset where necessary.<br>For setting, refer to the SERVICE ADJUSTMENTS. |

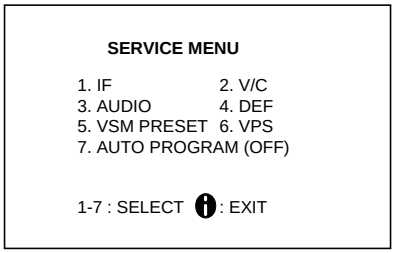



**Fig.1**

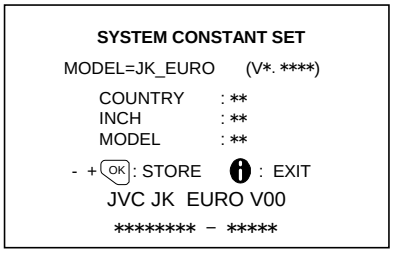
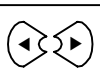



**Fig.2**

**NAME OF REMOTE CONTROL KEY**

| Names of key | key |
|---|---|
| INFORMATION | |
| MUTING | |
| MENU | |
| FUNCTION UP/DOWN | |
| FUNCTION -/+ |  |

## SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

| Setting item | Setting content | Setting value | |
|---|---|---|---|
| | | AV28S2EKGR AV28S2EKBL | AV28S2EIGR AV28S2EIBL |
| COUNTRY | → EK→EN →EP→EE → IR → | EK | IR |
| INCH | → 28 → 32 → | 28 | 28 |
| MODEL | → WFT → WFR → | WFT | ← |

## USER SETTING VALUES (TABLE 2)

| PICTURE SETTING | | EXT SETTING | |
|---|---|---|---|
| TINT | COOL | EXT SETTING | ID : BLACK<br>S-IN : BLACK |
| CONTRAST | REFER to VSM PRESET | | |
| BRIGHT | REFER to VSM PRESET | DUBBING | EXT-1→EXT-2 |
| SHARP | REFER to VSM PRESET | | |
| COLOUR | REFER to VSM PRESET | | |
| ECO MODE | OFF | | |
| PICTURE FEATURES | | FEATURES | |
| VNR | AUTO | SLEEP TIMER | OFF |
| COLOUR SYSTEM | TV : According to preset CH<br>EXT : AUTO | BLUE BACK | ON |
| 4:3 AUTO ASPECT | PANORAMIC | CHILD LOCK | ID : No.****<br>ALL CH : OFF |
| | | DECODER (EXT-2) | OFF |
| SOUND SETTING | | INSTALL | |
| BASS | CENTER | LANGUAGE | ENGLISH |
| TREBLE | CENTER | | |
| BALANCE | CENTER | EDIT | PRESET CH only<br>The others : BLANK |
| BBE | ON | | |
| HYPER SOUND | OFF | | |
| SPEAKER | L/R | | |

## SERVICE MENU SETTING ITEMS (TABLE 3)

| Setting item | Setting value | Setting item | Setting value |
|---|---|---|---|
| 1. IF | VCO | 4. DEF. | 1. V-SHIFT<br>2. V-SIZE<br>3. SUBTITLE<br>4. H-CENT<br>5. H-SIZE<br>6. EW-PIN<br>7. TRAPEZ<br>8. EW. COR. L<br>9. EW. COR. H<br>10. V. S-COR<br>11. V- LIN<br>12. H-BLK-R<br>13. H-BLK-L<br>14. V-EHT<br>15. H-EHT<br>16. EHT-GAIN |
| 2. V / C | 1. CUT OFF<br>2. DRIVE<br>3. BRIGHT<br>4. CONT.<br>5. COLOUR<br>6. HUE<br>7. BLACK OFFSET (Only SECAM)<br>8. SHARP<br>9. PURITY | 5. VSM PRESET<br>COOL<br>NORMAL<br>WARM | 1. BRIGHT<br>2. CONT.<br>3. COLOUR<br>4. SHARP<br>5. HUE<br>6. R DRIVE<br>7. B DRIVE |
| 1. AUDIO<br>**(Do not adjust)** | 1. CONC LIMIT<br>2. A2 ID THR<br>3. ALC<br>4. BASS<br>5. TREBLE | 6. VPS<br>**(Do not adjust)** | VPS<br>PDC |
| | | 7. AUTO PROGRAM<br>**(Do not adjust)** | ON / OFF |

# SERVICE ADJUSTMENTS

## BEFORE STARTING SERVICE ADJUSTMENT

1. **There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
2. **The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
7. Preparation for adjustment (presetting):
   Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

● Setting position

| | |
|---|---|
| PICTURE MODE (VSM) | NORMAL |
| SLEEP TIMER | OFF |
| BALANCE | CENTER |
| ECO | OFF |
| ZOOM | PANORAMIC |

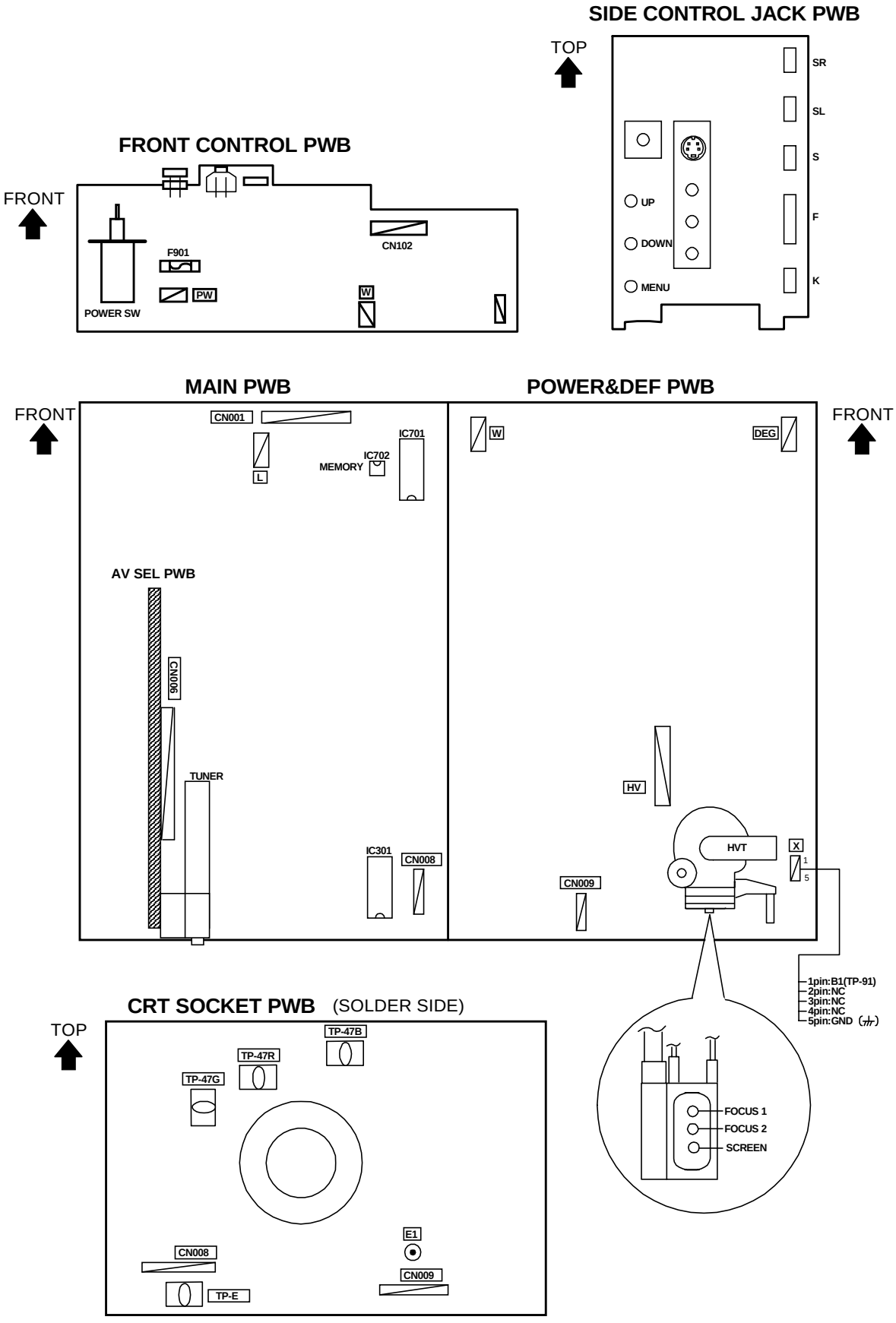
## MEASURING INSTRUMENT AND FIXTURES

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / NTSC]
4. Remote control unit

## ADJUSTMENT ITEMS

- Checking items.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- H. BLANKING ADJUSTMENT.
- AUDIO circuit adjustment. (Do not adjust)

# ADJUSTMENT LOCATIONS



# BASIC OPERATION SERVICE MENU

**1. TOOL OF SERVICE MENU OPERATION**

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

**2. SERVICE MENU ITEMS**

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

(1) **1. IF** ····· This mode adjusts the setting values of the IF circuit.

(2) **2.V/C** ····· This mode adjusts the setting values of the VIDEO / CHROMA circuit.

(3) **3.AUDIO** ····· This mode adjusts the setting values of the multiplicity SOUND circuit.

(4) **4.DEF** ····· This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.

| | |
|---|---|
| REGULAR | (50/60Hz) |
| PANORAMIC | (50/60Hz) |
| 14:9 ZOOM | (50/60Hz) |
| 16:9 ZOOM | (50/60Hz) |
| 16:9 ZOOM SUB TITLE | (50/60Hz) |
| FULL | (50/60Hz) |

(5) **5.VSM PRESET** ····· This mode adjusts the initial setting values of COOL,NOMAL and WARM.
(VSM : Video Status Memory)

(6) **6.VPS** ····· This mode shows the monitor of the VPS and PDC.***(Do not adjust)***.
(VPS : Video Program System, PDC : Program Delivery Code)

(7) **7.AUTO PROGRAM** ····· By turning the power switch on, you can get the state of AUTO PROGRAM. ***(Do not adjust)***

**3. BASIC OPERATION OF SERVICE MENU**

(1) **How to enter SERVICE MENU**

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

**SERVICE MENU**

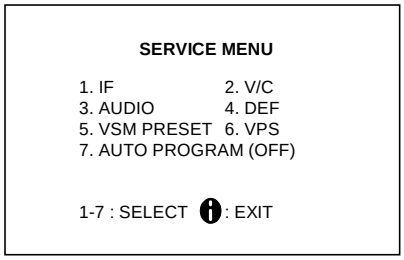



**Fig.1**

(2) **Selection of SUB MENU SCREEN**

Press one of keys 1～7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU → SUB MENU

**1. IF**
**2. V / C**
**3. AUDIO**
**4. DEF.**
**5. VSM PRESET**
**6. VPS**
**7. AUTO PROGRAM**

**NEME OF REMOTE CONTOROL KEY**

| Names of key | key |
|---|---|
| INFORMATION | |
| MUTING | |
| MENU | |
| FUNCTION UP/DOWN | |
| FUNCTION -/+ | |

**Fig.2**

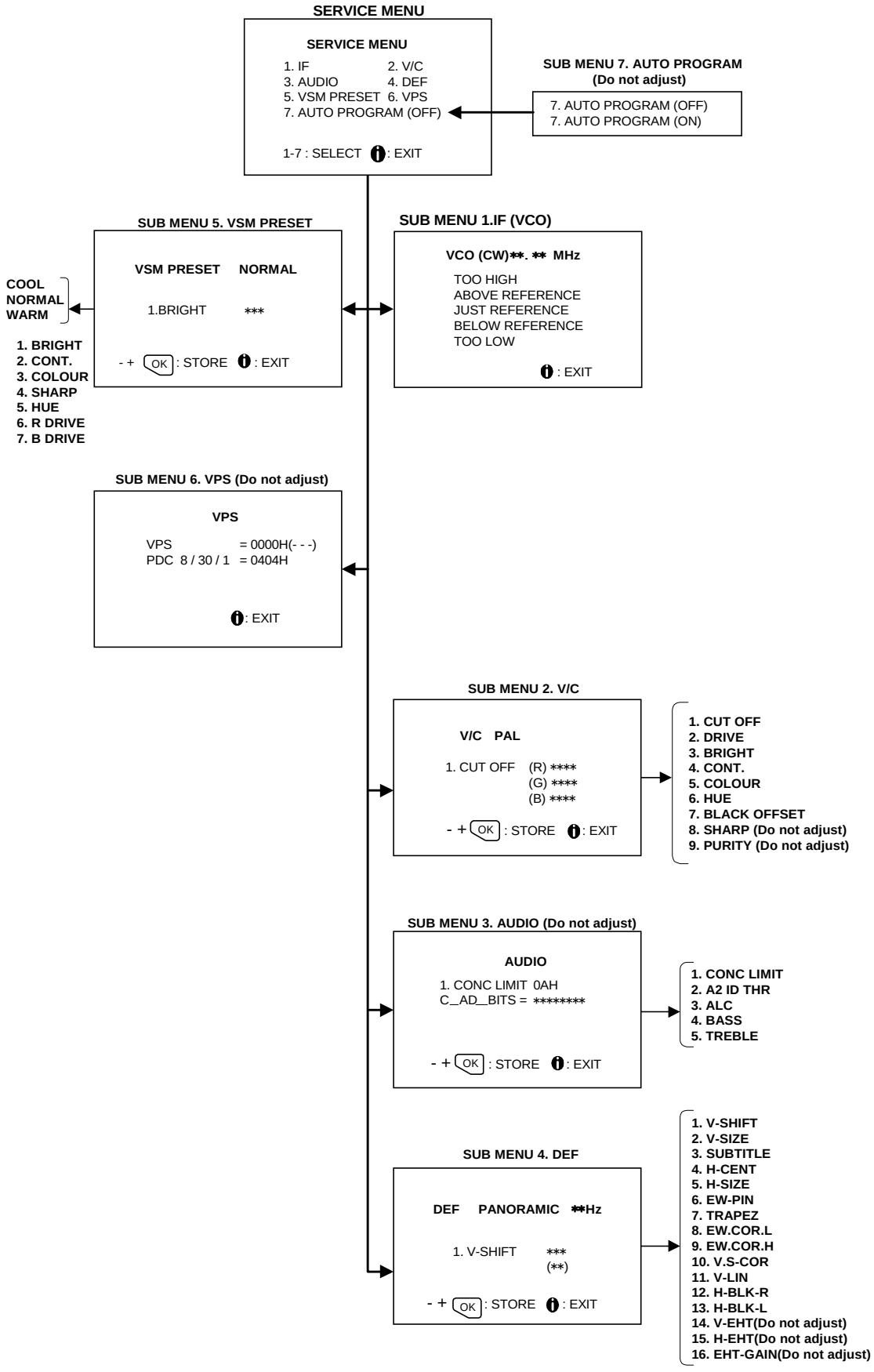



**Fig. 3 SUB MENU SCREEN**

(3) **Method of Setting**

1) Method of Setting **1.IF**

[VCO]

① 1 Key ····· Select 1.IF.

② The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.

③ INFORMATION Key····· Return to the SERVICE MENU screen.

2) Method of setting **2.V/C, 3.AUDIO, 4.DEF** and **5.VSM PRESET.**

① 2～5 Key ····· Select one from **2. V/C, 3. AUDIO, 4. DEF** and **5. VSM PRESET**.

② FUNCTION UP/DOWN Key ····· Select setting items.

③ FUNCTION -/+ ····· Set (adjust) the setting values of the setting items.
(Use the number keys of the REMOTE CONTROL UNIT for setting of WHITE BALANCE.
For the setting, refer to each item concerned.)

④ MENU Key····· Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key - if you do, the values will not be stored in memory.)

⑤ INFORMATION Key····· Return to the **SERVICE MENU** screen.

3) Method of setting **6.VPS** and **7.AUTO PROGRAM**.

6.VPS····· This mode displayed monitor of VPS systems. **(Do not adjust)**

7.AUTO PROGRAM····· When the MAIN POWER is turned on with the state of AUTO PROGRAM ON, you get a mode that initializes every existing set value including language selection. Because this mode is set at the factory upon completion of the adjustment, you need not to use it for service. **(Do not adjust in this mode.)**

(4) **Release of SERVICE MENU**

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

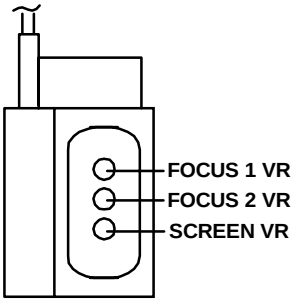
# ADJUSTMENTS

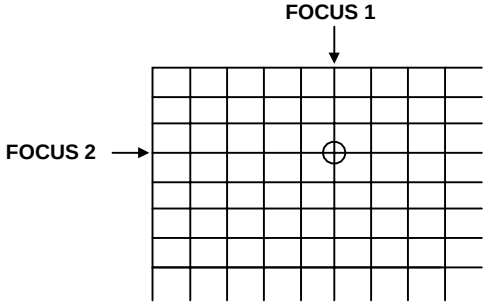
## CHECKING ITEM

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Check of B1 Power Supply** | **Signal Generator**<br><br>**DC voltmeter**<br><br>**Remote Control unit** | **TP-91(B1)**<br>**TP-E(⏚)**<br>**[X connector on POWER DEF PWB]** | | 1. Receive any broadcast.<br>2. Push the "ZOOM" key and select the FULL mode.<br>3. Select 2. V/C from the SERVICE MENU.<br>4. Select 1. CUT OFF with Function UP / DOWN key.<br>5. Show horizontal one line with the 1 key.<br>6. Turn the SCREEN VR, the whole black screen display.<br>7. Connect a DC voltmeter to TP-91(B1) and TP-E(⏚).<br>8. Make sure that the voltage is DC144.5 ±2.0V.<br>9. Readjust the SCREEN VR to appear the horizontal line faintly, and cancel the horizontal line to press the 2 key. |
| **Check of High Voltage** | **Signal Generator**<br><br>**DC volunteer**<br><br>**Remote Control unit** | **CRT anode**<br><br>**Chassis GND** | | 1. Receive any broadcast.<br>2. Push the "ZOOM" key and select the FULL mode.<br>3. Select 2. V/C from the SERVICE MENU.<br>4. Select 1. CUT OFF with Function UP / DOWN key.<br>5. Show horizontal one line with the 1 key.<br>6. Turn the SCREEN VR, the whole black screen display.<br>7. Connect a DC voltmeter to CRT ANODE and chassis GND.<br>8. Make sure that the voltage is DC 31.0kV $^{+1kV}_{-1.5kV}$.<br>9. Readjust the SCREEN VR to appear the horizontal line faintly, and connect the horizontal line to press 2 key. |

## ADJUSTMENT OF FOCUS

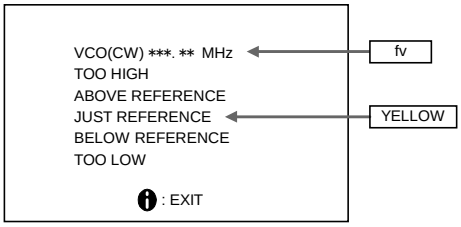
| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of FOCUS** | **Signal generator** | | **FOCUS VR**<br>**[In FBT]** | 1. Receive a cross-hatch signal.<br>2. By turning the FOCUS 2 VR, adjust the to make the vertical lines as fine and sharp as possible.<br>3. By turning the FOCUS 2 VR, adjust the picture so that the 5th vertical line from left side of the cross-hatch picture becomes thinnest.<br>4. By turning the FOCUS 1 VR, adjust the 3rd horizontal line from the upper side may become uniform at the line center and its periphery.<br>5. Carry out adjustment by repeating the steps 3 and 4 about.<br>6. Make sure that when the screen is darkened, the lines remain in good focus. |



## IF CIRCUIT ADJUSTMENT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of VCO** | **Remote control unit** | | | ● Under normal conditions, no adjustment is required.<br>1. Receive any broadcast.<br>2. Select 1.IF from the SERVICE MENU.<br>3. Check the characters colour of between the "ABOVE REFERENCE" and "BELOW REFERENCE" displayed to yellow. |




## VSM PRESET SETTING

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Setting of VSM PRESET** | **Remote control unit** | | **1. BRIGHT**<br>**2. CONT.**<br>**3. COLOUR**<br>**4. SHARP**<br>**5. HUE**<br>**6. R DRIVE**<br>**7. B DRIVE** | 1. Select 5.VSM PRESET from the SERVICE MENU.<br>2. Select COOL with the MENU key of the remote control unit.<br>3. Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.BRIGHT ～ 7. B DRIVE to the values shown in the table.<br>4. Press the MENU key and memorize the set value.<br>5. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above.<br>6. Press the MENU key and memorize the set value.<br>＊ Refer to OPERATING INSTRUCTIONS for the PICTURE MODE. |

| VSM preset mode / Setting item | COOL | NORMAL | WARM |
|---|---|---|---|
| 1. BRIGHT SETTING VALUE | +0 | +0 | +0 |
| 2. CONT. SETTING VALUE | +12 | +10 | +2 |
| 3. COLOUR SETTING VALUE | +6 | +0 | -2 |
| 4. SHARP SETTING VALUE | +0 | +0 | -2 |
| 5. HUE SETTING VALUE | +0 | +0 | +0 |
| 6. R DRIVE SETTING VALUE | -20 | +0 | +16 |
| 7. B DRIVE SETTING VALUE | +23 | +0 | -13 |

**SETTING VALUES OF VSM PRESET**

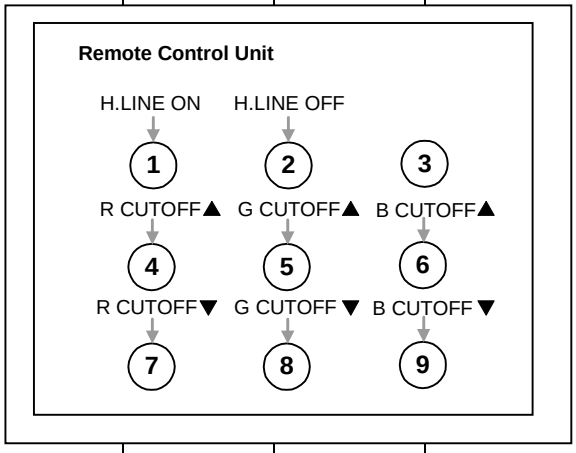
## VIDEO / CHROMA CIRCUIT ADJUSTMENT

**The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.**
**The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**

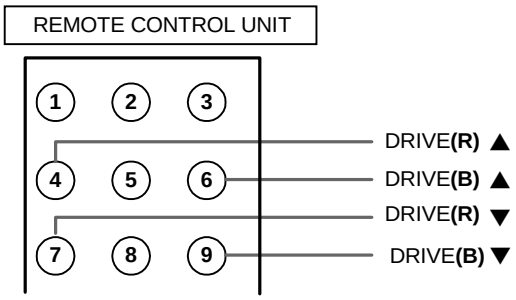
| Setting Item (Adjustment Item ) | | Initial setting value |
|---|---|---|
| 1. CUTOFF | R | -100 |
| | G | -100 |
| | B | -100 |
| 2. DRIVE | R | +0 |
| | B | +0 |
| 3. BRIGHT | | +0 |
| 4. CONT. | | -10 |

| Setting item \ Colour system | | Initial setting value | |
|---|---|---|---|
| | | PAL | NTSC 3.58 NTSC 4.43 |
| 5. COLOUR | | +14 | +8 |
| 6. HUE | | ——— | +2 |
| 7. BLACK OFFSET (Only SECAM) | R-Y | ——— | ——— |
| | B-Y | ——— | ——— |
| 8. SHARP (Do not adjust) | | -7 | ← |
| 9. PURITY (Do not adjust) | | OFF | ——— |

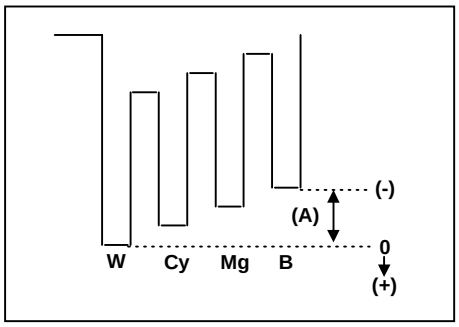
| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| Adjustment of WHITE BALANCE (Low Light) | Signal generator<br><br>Remote control unit | | 1.CUT OFF<br>(R)＊＊＊<br>(G)＊＊＊<br>(B)＊＊＊<br><br>SCREEN VR [In FBT] | ● Set the PICTURE MODE to NORMAL.<br>1. Receive a black and white signal (colour off).<br>2. Select 2. V/C from the SERVICE MENU.<br>3. Select 1.CUT OFF with the FUNCTION UP/DOWN key.<br>4. Push the “ZOOM” key and select the “PANORAMIC” mode.<br>5. Show one horizontal line with the 1 key.<br>6. Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green or blue colour faintly visible.<br>7. Press 4～9 key, and bring out the other 2 colours and make one horizontal line visible in white.<br>8. Turn the SCREEN VR and bring one white horizontal line faintly visible.<br>9. Press 2 key, turn off 1.CUT OFF screen.<br>10. Press the MENU key and memorize the set value. |



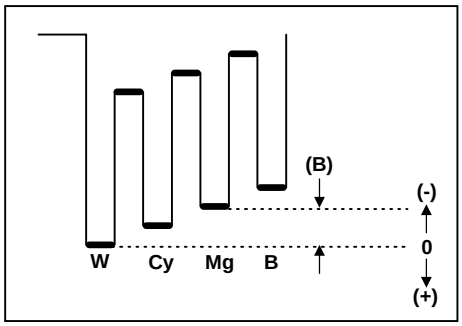
| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of WHITE BALANCE (High Light)** | **Signal generator**<br><br>**Remote control unit** | | **2.DRIVE**<br>**(R)** ＊ ＊ ＊<br>**(B)** ＊ ＊ ＊ | ● The adjustment for Low Light WHITE BALANCE should be finished.<br>● Set the PICTURE MODE to NORMAL.<br>1. Receive a black and white signal (colour off).<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 2.DRIVE with the FUNCTION UP/DOWN key.<br>4. Change the screen colour to white with 4 key or 7 key (Drive of Red), 6 key or 9 key (Drive of Blue).<br>5. Press the MENU key, and memorize the set values. |
| **Adjustment of SUB BRIGHT** | **Remote control unit** | | **3.BRIGHT** | 1. Receive any broadcast.<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 3.BRIGHT with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value with the FUNCTION -/+ key.<br>5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.<br>6. Press the MENU key and memorize the set value. |
| **Adjustment of SUB CONT.** | **Remote control unit** | | **4.CONT.** | 1. Receive any broadcast.<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 4.CONT with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value with the FUNCTION - / + key.<br>5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast.<br>6. Press the MENU key and memorize the set value. |



| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of SUB COLOUR I** | **Remote control unit** | | **5.COLOUR (PAL / NTSC)** | **[Method of adjustment without measuring instrument]** |
| | | | PAL COLOUR | (PAL COLOUR)<br>1. Receive PAL broadcast.<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 5.COLOUR with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key.<br>5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour.<br>6. Press the MENU key and memorize the set value. |
| | | | NTSC COLOUR | (NTSC 3.58 COLOUR)<br>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal.<br>2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above. |
| | | | | (NTSC 4.43 COLOUR)<br>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. |

<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td rowspan="3">Adjustment of SUB COLOUR Ⅱ</td><td rowspan="3">Signal generator<br><br>Oscilloscope<br><br>Remote control unit</td><td rowspan="3">TP-47B<br>TP-E(⏚)<br>[CRT SOCKET PWB ]</td><td>5.COLOUR (PAL / NTSC)</td><td>[Method of adjustment using measuring instrument]</td></tr>
<tr><td>PAL COLOUR</td><td>(PAL COLOUR)<br>1. Receive a PAL full field colour bar signal (75% white).<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 5.COLOUR with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key.<br>5. Connect the oscilloscope between TP-47B and TP-E(⏚).<br>6. Adjust PAL COLOUR and bring the value of (A) in the illustration to the values are shown given below. (Voltage difference between white (W) and blue (B)).<br>7. Press the MENU key and memorize the setting value.<br><br><table><tr><td>VOLTAGE (W-B)</td><td>+2V</td></tr></table></td></tr>
<tr><td>NTSC COLOUR</td><td>(NTSC 3.58 COLOUR)<br>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.<br>2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key.<br>3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to 0V (W-B).<br>4. Press the MENU key and memorize the setting value.</td></tr>
<tr><td colspan="3"> 
</td><td>(NTSC 4.43 COLOUR)<br>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.</td></tr>
</table>

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of SUB HUE Ⅰ** | **Remote control unit** | | **6.HUE** | **[Method of adjustment without measuring instrument]** |
| | | | NTSC 3.58 HUE | [NTSC 3.58 HUE]<br>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 6. HUE with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key.<br>5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue.<br>6. Press the MENU key and memorize the set value. |
| | | | NTSC 4.43 HUE | [NTSC 4.43 HUE]<br>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. |
| **Adjustment of SUB HUE Ⅱ** | **Signal generator**<br>**Oscilloscope**<br>**Remote control unit** | **TP-47B TP-E(⏚) [CRT SOCKET PWB]** | **6. HUE** | **[Method of adjustment using measuring instrument]** |
| | | | NTSC 3.58 HUE | [NTSC 3.58 HUE]<br>1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.<br>2. Select 2.V/C from the SERVICE MENU.<br>3. Select 6. HUE with the FUNCTION UP/DOWN key.<br>4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key.<br>5. Connect the oscilloscope between TP-47B and TP-E(⏚)<br>6. Adjust NTSC 3.58 HUE to bring the value of **(B)** in the illustration to **0V (W-Mg)** (voltage difference between white (W) and magenta (Mg)).<br>7. Press the MENU key and memorize the setting value |
| | | | NTSC 4.43 HUE | [NTSC 4.43 HUE]<br>1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. |



## DEFLECTION CIRCUIT ADJUSTMENT

**There are 6 modes of the adjustment ( 1 ) 50Hz mode ( ①PANORAMIC ②FULL ③REGULAR ④14:9 ZOOM ⑤16:9 ZOOM ⑥16:9 ZOOM SUB TITLE ), ( 2 ) 60Hz mode ( each aspect mode ) ····· depending upon the kind of signals ( vertical frequency 50Hz / 60Hz ).**

- **The adjustment using the remote control unit is made on the basis of the initial setting values.**
- **When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.**
- **The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**

**Initial setting value (1/2)**

• Marked ∗ : Fixed value

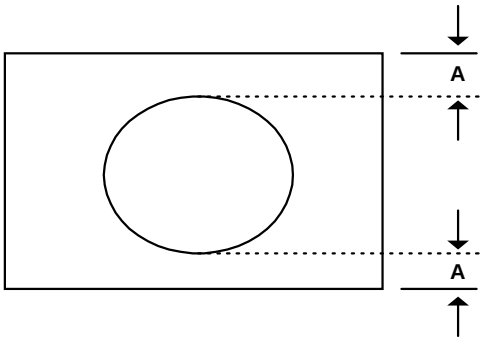
| Setting item | Adjustment name | Initial setting value | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | PANORAMIC | | 14:9 ZOOM | | 16:9 ZOOM | | 16:9 ZOOM SUB TITLE | |
| | | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SHIFT | Vertical center | +5 | -2 | +0 | +0 | -1 | 0 | 0 | 0 |
| 2. V-SIZE | Vertical height | +1 | -3 | +9 | +10 | +30 | +31 | +34 | +32 |
| 3. SUBTITLE ∗ | SUBTITLE BOTTOM Vertical Linearity | 0 | 0 | 0 | 0 | 0 | 0 | +5 | +5 |
| 4. H-CENT | Horizontal center | -7 | +4 | 0 | +0 | +0 | 0 | +0 | +0 |
| 5. H-SIZE | Horizontal width | +5 | -1 | -12 | -13 | -13 | -12 | -13 | -12 |
| 6. EW-PIN | Side pin correction | -14 | -1 | -3 | -1 | -1 | +1 | -2 | -1 |
| 7. TRAPEZ | Trapezoidal distortion correction | +0 | -2 | -1 | -1 | -1 | -1 | -1 | 0 |
| 8. EW.COR.L | CORNER PIN correction Low side | -1 | +0 | +1 | +1 | +1 | +1 | +1 | +1 |
| 9. EW.COR.H | CORNER PIN correction High side | -1 | +1 | +1 | +0 | +1 | +0 | +1 | 0 |
| 10.V.S-COR ∗ | Vertical height correction | +15 | +0 | -15 | -15 | -15 | -15 | -15 | -15 |
| 11.V-LIN | Vertical Linearity | 0 | -4 | +1 | +1 | -3 | -4 | -1 | +1 |
| 12.H-BLK-R | BLANKING POSITION of Right side | +0 | +0 | +116 | +117 | +0 | +0 | +0 | +0 |
| 13.H-BLK-L | BLANKING POSITION of Left side | +0 | +0 | +42 | +34 | +0 | +0 | +0 | +0 |
| 14.V-EHT ∗ | V size correction level caused by EHT change | -2 | +0 | +0 | +0 | +0 | +0 | +0 | +0 |
| 15.H-EHT ∗ | H size correction level caused by EHT change | -3 | +0 | +0 | +0 | +0 | +0 | +0 | +0 |
| 16.EHT-GAIN∗ | Size correction gain caused by EHT change | +0 | +0 | +0 | +0 | +0 | +0 | +0 | +0 |

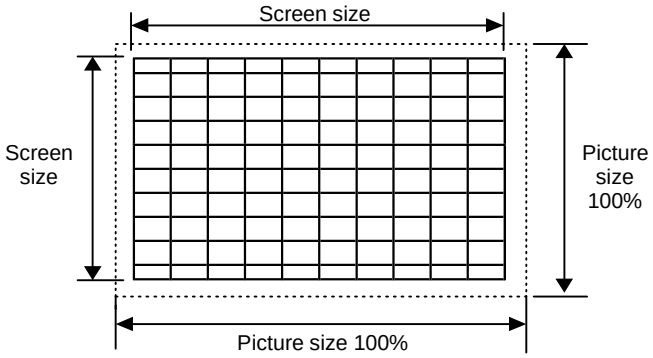
**Initial setting value (2/2)**

• Marked ∗ : Fixed value

| Setting item | Adjustment name | Initial setting value | | | |
|---|---|---|---|---|---|
| | | FULL | | REGULAR | |
| | | 50Hz | 60Hz | 50Hz | 60Hz |
| 1. V-SHIFT | Vertical center | +0 | 0 | +0 | +0 |
| 2. V-SIZE | Vertical height | -16 | -13 | -6 | -7 |
| 3. SUBTITLE | SUBTITLE BOTTOM Vertical Linearity | 0 | 0 | 0 | 0 |
| 4. H-CENT | Horizontal center | -1 | +0 | 0 | 0 |
| 5. H-SIZE | Horizontal width | -13 | -12 | -23 | -23 |
| 6. EW-PIN | Side pin correction | 0 | +2 | -1 | +2 |
| 7. TRAPEZ | Trapezoidal distortion correction | 0 | +1 | -1 | -1 |
| 8. EW.COR.L | CORNER PIN correction Low side | +1 | +1 | +1 | +1 |
| 9. EW.COR.H | CORNER PIN correction High side | +1 | +0 | -1 | +0 |
| 10.V.S-COR | Vertical height correction | -10 | -15 | -5 | -5 |
| 11.V-LIN | Vertical Linearity | +1 | 0 | 0 | 0 |
| 12.H-BLK-R | BLANKING POSITION of Right side | +0 | +0 | +116 | +117 |
| 13.H-BLK-L | BLANKING POSITION of Left side | +0 | +0 | +40 | +36 |
| 14.V-EHT ∗ | Vsize correction level caused by EHT change | +0 | +0 | +0 | +0 |
| 15.H-EHT ∗ | Hsize correction level caused by EHT change | +0 | +0 | +0 | +0 |
| 16.EHT-GAIN ∗ | Size correction gain caused by EHT change | +0 | +0 | +0 | +0 |

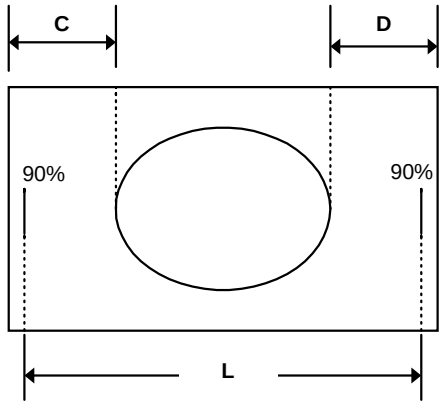
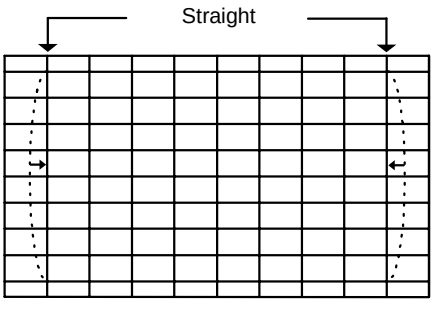
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>Adjustment of V-SHIFT</td><td>Signal generator<br><br>Remote control unit</td><td></td><td>1.V- SHIFT</td><td>[50Hz PANORAMIC mode]<br>1. Receive a circle pattern signal of vertical frequency 50Hz.<br>2. Select 4.DEF from the SERVICE MENU.<br>3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key.<br>4. Adjust V-SHIFT to make A = B.<br>5. Press the MENU key and memorize the set value.<br><br>* For JK chassis<br>Set all data except for "PANORAMIC" to "0".<br>Adjust V.CENTER of other aspects with "PANORAMIC" mode while also taking their positions into consideration. If you want to obtain horizontal lines with less noise on the screen, adjust V.LIN instead of "PANORAMIC" mode.</td></tr>
<tr><td>Adjustment of V-SIZE & SUBTITLE</td><td></td><td></td><td>2.V-SIZE<br>3.SUBTITLE</td><td>6. Receive a cross-hatch signal.<br>7. Select 2.V-SIZE and set the initial setting value.<br>8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table.<br>9. Press the MENU key and memorize the set value.<br>10. When adjust the [SUBTITLE], select “3.SUBTITLE” and adjust to under part of picture size.<br>11. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below.<br>12. Press the MENU key and memorize the set value.</td></tr>
</table>




| ASPECT MODE | PANORAMIC | 14 : 9 ZOOM | 16 : 9 ZOOM | 16 : 9 ZOOM SUB TITLE | FULL | REGULAR |
|---|---|---|---|---|---|---|
| SCREEN TOP | 87% | 80% | 70% | 70% | 92% | 92% |
| SCREEN BOTTOM | 87% | 80% | 70% | 83% | 92% | 92% |

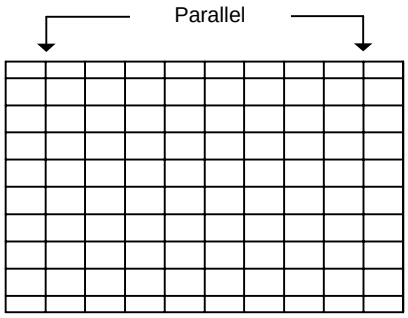
**[ SCREEN SIZE ]**

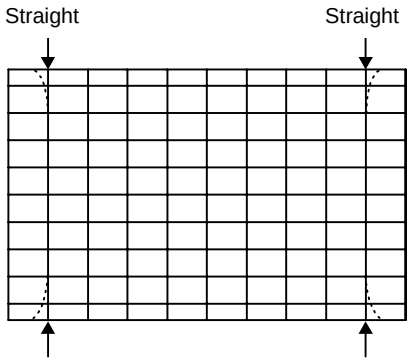
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment part</th><th>Description</th></tr>
<tr><td>Adjustment of H.CENTER<br> 
</td><td></td><td></td><td>4.H-CENT.</td><td>6. Receive a circle pattern signal.<br>7. Select 4.H-CENT and set the initial setting value.<br>8. Adjust H-CENT to make C=D.<br>9. Press the MENU key and memorize the set value.</td></tr>
<tr><td>Adjustment of H.SIZE</td><td></td><td></td><td>5.H-SIZE</td><td>10. Receive a circle pattern signal.<br>11. Select 5.H-SIZE and set the initial setting value.<br>12. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table.<br>13. Press the MENU key and memorize the set value.<br><br>※ The numeric of the REGULAR and 14:9 ZOOM modes are shown the length of the 90% horizontal size position( L ) as shown in the figure above.<br><br>14. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table.<br>15. Press the MENU key and memorize the set value.</td></tr>
<tr><td>Adjustment of EW-PIN<br> 
</td><td></td><td></td><td>6.EW-PIN</td><td>16. Select 6.EW-PIN and set the initial setting value<br>17. Adjust EW-PIN and make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight.<br>18. Press the MENU key and memorize the set value.</td></tr>
</table>

| ASPECT MODE | PANORAMIC | 14:9 ZOOM | 16:9 ZOOM | 16:9 ZOOM SUB TITLE | FULL | REGULAR |
|---|---|---|---|---|---|---|
| H SIZE | PAL=95%<br>NTSC=94% | L=495mm | 92% | 92% | 92% | L=440mm |

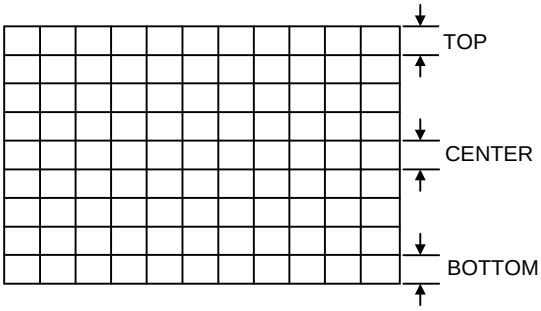
**[ SCREEN SIZE ]**

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of TRAPEZ** | **Signal generator Remote control unit** | | **7.TRAPEZ** | 19. Receive a cross-hatch signal.<br>20. Select 7.TRAPEZ with the FUNCTION UP/DOWN key.<br>21. Set the initial setting value of TRAPEZ with the FUNCTION - or + key.<br>22. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel .<br>23. Press the MENU key and memorize the set value. |
| **Adjustment of EW. COR. L/H** | **Signal generator Remote control unit** | | **8.EW. COR. L**<br>**9.EW. COR. H** | 24. Select 8.EW. COR. L with the FUNCTION UP / DOWN key.<br>25. Set the initial setting value of EW. COR. L with the FUNCTION – or + key.<br>26. Adjust EW. COR. L, and bring the straight line at the low corner.<br>27. Select 9.EW. COR. H with the FUNCTION UP / DOWN key.<br>28. Set the initial setting value of EW. COR. H with the FUNCTION – or + key.<br>29. Adjust EW. COR. H, and bring the straight line at the upper corner.<br>30. Press the MENU key and memorize the set value. |



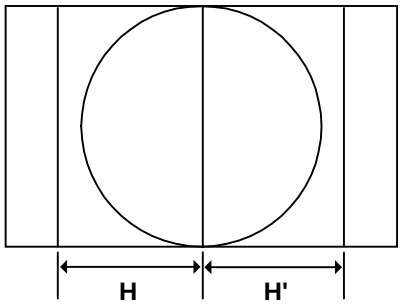



| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of V-S.COR & V.LINEARITY** | | | **10. V-S. COR**<br>**11. V-LIN** | ● **When the vertical linearity has been deteriorated remarkably, perform the following steps.**<br>31. Receive a cross-hatch signal.<br>32. Select **11.V-LIN** with the FUNCTION UP/DOWN key.<br>33. Set the initial setting value of **11.V-LIN** with the FUNCTION - / + key.<br>34. Select **10.V-S.COR** with the FUNCTION UP / DOWN key.<br>35. Set the initial setting value of **10.V-S.COR** with the FUNCTION - / + key.<br>36. Adjust **11.V-LIN** and **10.V-S.COR** so that the spaces of each line on **TOP, CENTER** and **BOTTOM** become uniform.<br><br>**NOTE** : Do not adjust “PANORAMIC” & “16 : 9 ZOOM SUBTITLE” mode.<br>∗ **For JK chassis**<br>On account of CRT (ITC), set V-S.COR except for "PANORAMIC" mode to the minimum.<br>When adjusting "PANORAMIC" mode, slightly expand the space at the CENTER while taking the circularity at the CENTER into consideration. |
| | | | | At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz(NTSC EXT mode) PANORAMIC mode. If the adjustment in 50Hz each zoom mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself. |



## H. BLANKING ADJUSTMENT

| Item | Measuring instrument | Test point | Adjustment part | Description |
|---|---|---|---|---|
| **Adjustment of H.BLANKING** | | | **H.BLK Capacitor [On MAIN PWB]** | 1. Receive the PAL circle pattern signal.<br>2. Select 4.DEF from the SERVICE MENU.<br>3. Select the aspect [14:9 ZOOM] mode.<br>4. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the right side is displayed.<br>5. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed.<br>6. Press the MENU key and memorize the set value.<br>7. Select the aspect [REGULAR] mode.<br>8. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H'.BLANKING so that 92% of the picture on the right side is displayed.<br>9. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed.<br>10. Press the MENU key and memorize the set value. |




## AUDIO CIRCUIT ADJUSTMENT

- Do not touch 3.AUDIO(1. CONC LIMIT, 2. A2 ID THR, 3. ALC, 4. BASS, 5. TREBLE) of the SERVICE MENU as it requires no adjustment.

**3. AUDIO**

| Setting item | Variable range | fixed value |
|---|---|---|
| 1. CONC LIMIT***(Do not adjust)*** | 00H ～ FFH | 0AH |
| 2. A2 ID THR***(Do not adjust)*** | 00H ～ FFH | 19H |
| 3. ALC ***(Do not adjust)*** | 20MSEC→ 2SEC→ 4SEC→ 8SEC | ——— |
| 4. BASS ***(Do not adjust)*** | -17 ～ +17 | +0 |
| 5. TREBLE ***(Do not adjust)*** | -17 ～ +17 | +0 |

JVC
**VICTOR COMPANY OF JAPAN, LIMITED**
HOME AV NETWORK BUSINESS UNIT 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

AV28S2EKGR-U #4 AV28S2EKBL-U #4
AV28S2EIGR-U #4 AV28S2EIBL-U #4

Printed in Japan
VP 0103
DP2051

# PARTS LIST

## CAUTION

- The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

| RESISTORS | | CAPACITORS | |
|---|---|---|---|
| C R | Carbon Resistor | C CAP. | Ceramic Capacitor |
| F R | Fusible Resistor | E CAP. | Electrolytic Capacitor |
| P R | Plate Resistor | M CAP. | Mylar Capacitor |
| V R | Variable Resistor | HV CAP. | High Voltage Capacitor |
| HV R | High Voltage Resistor | MF CAP. | Metalized Film Capacitor |
| MF R | Metal Film Resistor | MM CAP. | Metalized Mylar Capacitor |
| MG R | Metal Glazed Resistor | MP CAP. | Metalized Polystyrol Capacitor |
| MP R | Metal Plate Resistor | PP CAP. | Polypropylene Capacitor |
| OM R | Metal Oxide Film Resistor | PS CAP. | Polystyrol Capacitor |
| CMF R | Coating Metal Film Resistor | TF CAP. | Thin Film Capacitor |
| UNF R | Non-Flammable Resistor | MPP CAP. | Metalized Polypropylene Capacitor |
| CH V R | Chip Variable Resistor | TAN. CAP. | Tantalum Capacitor |
| CH MG R | Chip Metal Glazed Resistor | CH C CAP. | Chip Ceramic Capacitor |
| COMP. R | Composition Resistor | BP E CAP. | Bi-Polar Electrolytic Capacitor |
| LPTC R | Linear Positive Temperature Coefficient Resistor | CH AL E CAP. | Chip Aluminum Electrolytic Capacitor |
| | | CH AL BP CAP. | Chip Aluminum Bi-Polar Capacitor |
| | | CH TAN. E CAP. | Chip Tantalum Electrolytic Capacitor |
| | | CH AL BP E CAP. | Chip Tantalum Bi-Polar Electrolytic Capacitor |

| TOLERANCES | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| F | G | J | K | M | N | R | H | Z | P |
| ±1% | ±2% | ±5% | ±10% | ±20% | ±30% | +30%<br>-10% | +50%<br>-10% | +80%<br>-20% | +100%<br>-0% |

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**AV28S2EKGR / AV28S2EKBL**

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- POWER & DEF. PW BOARD ASS' Y ····· **38**
- CRT SOCKET PW BOARD ASS'Y ····· **40**
- FRONT CONTROL PW BOARD ASS'Y ····· **41**
- SIDE CONTROL PW BOARD ASS'Y ····· **41**
- AV SEL. PW BOARD ASS'Y ····· **41**

**AV28S2EIGR / AV28S2EIBL**

- MAIN PW BOARD ASS'Y ····· **44**
- POWER & DEF. PW BOARD ASS' Y ····· **46**
- CRT SOCKET PW BOARD ASS'Y ····· **46**
- FRONT CONTROL PW BOARD ASS'Y ····· **46**
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■ **PACKING PARTS LIST** ····· **50**

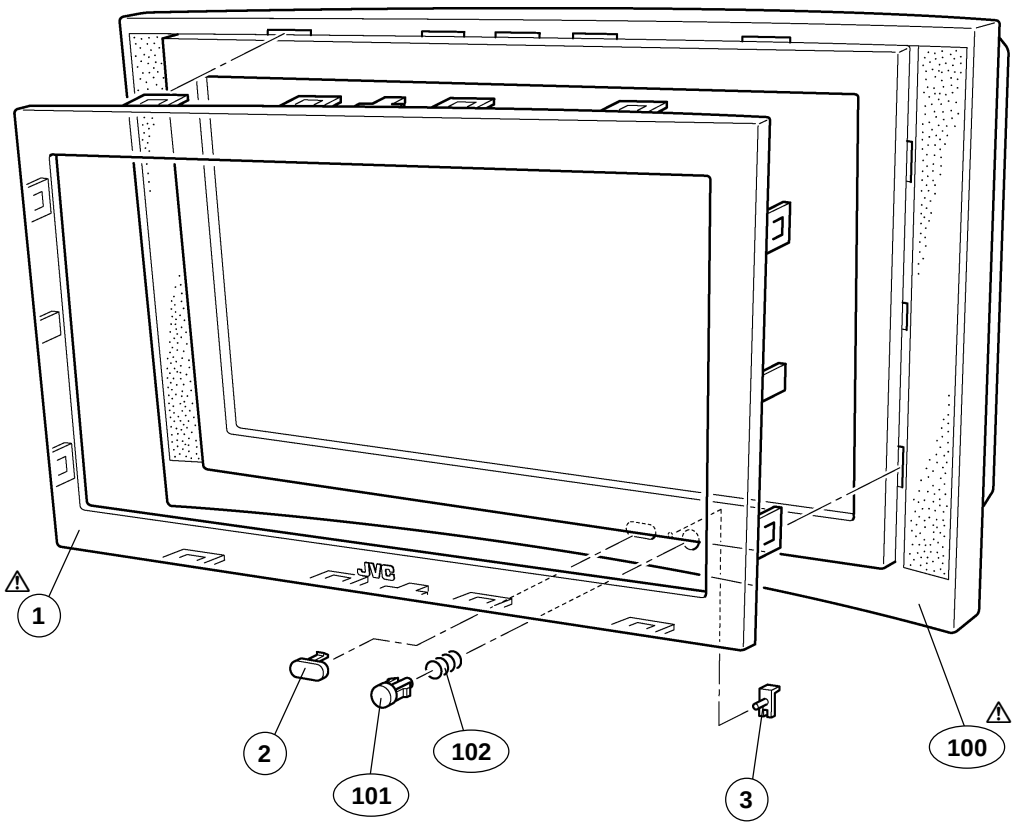
## USING PW BOARD & REMOTE CONTROL UNIT

| Model / PWB ASS'Y | AV28S2EKGR | AV28S2EKBL | AV28S2EIGR | AV28S2EIBL |
|---|---|---|---|---|
| **MAIN PWB** | SJK-1911A-U2 | ← | SJK-1711A-U2 | ← |
| **POWER & DEF. PWB** | SJK-2511A-U2 | ← | ← | ← |
| **CRT SOCKET PWB** | SJK-3511A-U2 | ← | ← | ← |
| **FRONT CONTROL PWB** | SJK-8511A-U2 | ← | ← | ← |
| **SIDE CONTROL PWB** | SJK-8551A-U2 | ← | ← | ← |
| **AV SEL. PWB** | SJK0S911A-U2 | ← | SJK0S711A-U2 | ← |
| **REMOTE CONTROL UNIT** | RM-C55-1C | ← | ← | ← |

# EXPORTED VIEW PARTS LIST (1)

| ⚠ | Ref.No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| **AV28S2EKGR / AV28S2EKBL** | | | | |
| ⚠ | 1 | LC11007-001B-U | FRONT FRAME | [AV28S2EKGR] |
| ⚠ | 1 | LC11007-002B-U | FRONT FRAME | [AV28S2EKBL] |
| | 2 | LC31203-001A-C | REMOCON WINDOW | [AV28S2EKGR] |
| | 2 | LC31203-001B-C | REMOCON WINDOW | [AV28S2EKBL] |
| | 3 | LC31202-001A-C | L.E.D.LENS | |
| ⚠ | 100 | LC11005-001A-U | F.CABINET ASSY | Inc.No.101～102 |
| | 101 | LC31201-002A-U | POWER KNOB | (SERVICE) |
| | 102 | AEM3149-001-E | SPRING | |
| **AV28S2EIGR / AV28S2EIBL** | | | | |
| ⚠ | 1 | LC11007-001B-U | FRONT FRAME | [AV28S2EIGR] |
| ⚠ | 1 | LC11007-002B-U | FRONT FRAME | [AV28S2EIBL] |
| | 2 | LC31203-001A-C | REMOCON WINDOW | [AV28S2EIGR] |
| | 2 | LC31203-001B-C | REMOCON WINDOW | [AV28S2EIBL] |
| | 3 | LC31202-001A-C | L.E.D.LENS | |
| ⚠ | 100 | LC11005-001A-U | F.CABINET ASSY | Inc.No.101～102 |
| | 101 | LC31201-002A-U | POWER KNOB | (SERVICE) |
| | 102 | AEM3149-001-E | SPRING | |

# EXPLODED VIEW (1)



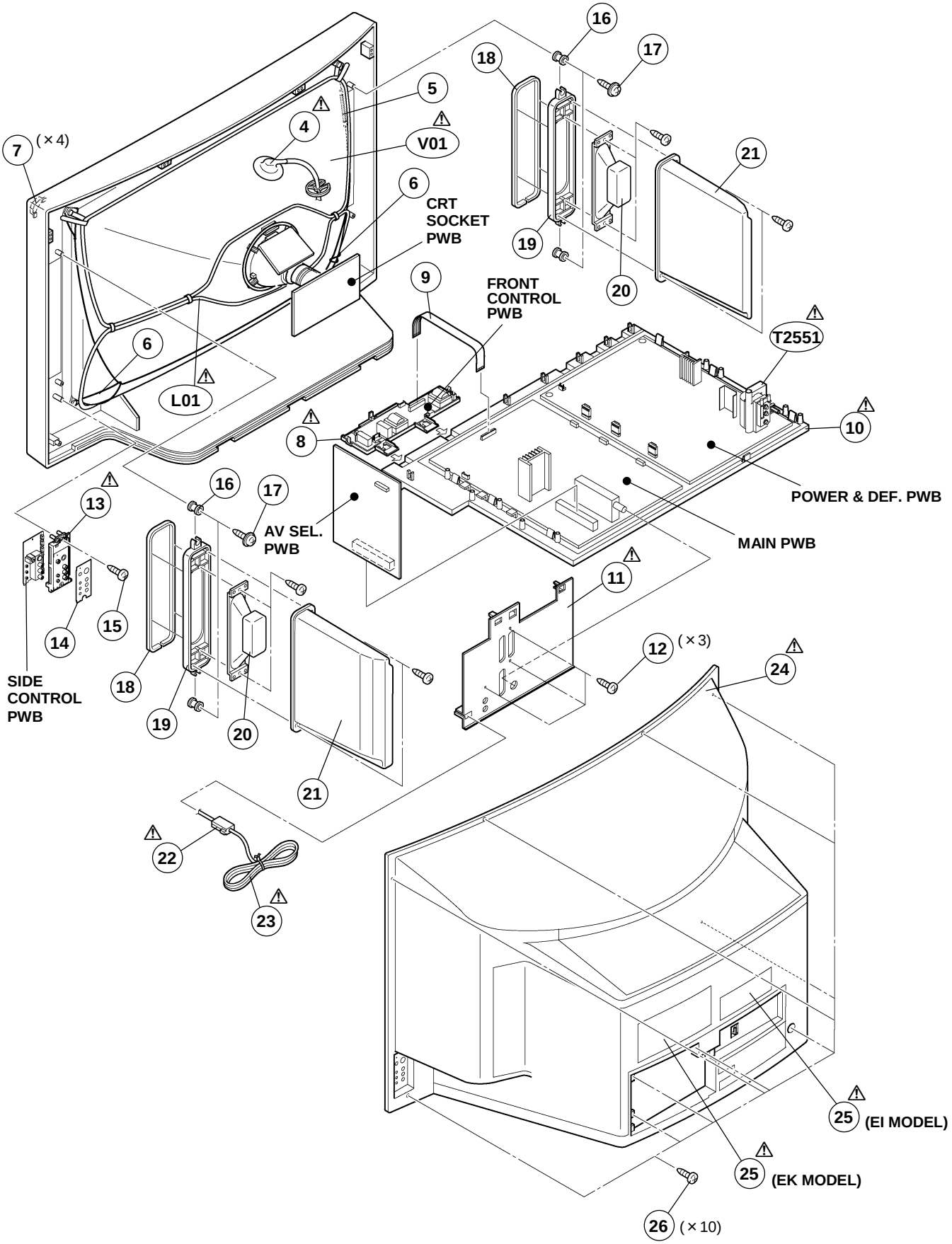
# EXPLODED VIEW PARTS LIST (2)

## AV28S2EKGR / AV28S2EKBL

| ⚠ | Ref.No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| ⚠ | V01 | W66QDE891X923 | ITC TUBE(C) | Inc.DY,PC MAGNET,WEDGE |
| ⚠ | L01 | QQW0100-001 | DEG.COIL | |
| ⚠ | T2551 | QQH0089-002-I2 | H.V.TRANSF. | (SERVICE)With ANODE WIRE |
| ⚠ | 4 | QNZ0369-003 | ANODE WIRE | |
| | 5 | WJY0001-004A | E-BRAIDED ASSY | |
| | 6 | CHGB0017-0B | BRAIDED SUB ASSY | (×2) |
| | 7 | LC20725-001A-U | CRT SPACER | (×4) |
| ⚠ | 8 | LC11009-001B-U | CONTROL BASE | |
| | 9 | CHFD125-08BD | FFC WIRE | |
| ⚠ | 10 | LC10716-002F-U | CHASSIS BASE | |
| ⚠ | 11 | LC11010-001A-U | AV BOARD | |
| | 12 | QYSBSB3012M | TAPPING SCREW | (×3)For AV BOARD |
| ⚠ | 13 | LC10856-001B-U | SIDE CONTROL BASE | |
| | 14 | LC31205-002A-U | CONTROL SHEET | |
| | 15 | QYSBSB3012M | TAPPING SCREW | (×1)For SIDE CONTROL BASE |
| | 16 | AEM4087-001-E | BUSHING | (×4) |
| | 17 | LC40506-001A | TAPPING SCREW | (×4) |
| | 18 | AEM3029-A11-E | STICK SHEET | |
| | 19 | LC11017-001A-U | SPEAKER ADAPTER | (×2) |
| | 20 | QAS0072-001 | SPEAKER | (×2) |
| | 21 | LC10858-001B-U | SPEAKER BOX | (×2) |
| ⚠ | 22 | CM46618-A01-E | POWER CORD CLAMP | |
| ⚠ | 23 | QMPN130-185-JC | POWER CORD | |
| ⚠ | 24 | LC11011-001C-U | REAR COVER | |
| ⚠ | 25 | LC20091-020A-U | RATING LABEL | [AV28S2EKGR] |
| ⚠ | 25 | LC20091-025A-U | RATING LABEL | [AV28S2EKBL] |
| | 26 | QYSBSAG4016N | TAPPING SCREW | (×10) For REAR COVER |

## AV28S2EIGR / AV28S2EIBL

| ⚠ | Ref.No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| ⚠ | V01 | W66QDE891X923 | ITC TUBE(C) | Inc.DY,PC MAGNET,WEDGE |
| ⚠ | L01 | QQW0100-001 | DEG.COIL | |
| ⚠ | T2551 | QQH0089-002-I2 | H.V.TRANSF. | (SERVICE)With ANODE WIRE |
| ⚠ | 4 | QNZ0369-003 | ANODE WIRE | |
| | 5 | WJY0001-004A | E-BRAIDED ASSY | |
| | 6 | CHGB0017-0B | BRAIDED SUB ASSY | (×2) |
| | 7 | LC20725-001A-U | CRT SPACER | (×4) |
| ⚠ | 8 | LC11009-001B-U | CONTROL BASE | |
| | 9 | CHFD125-08BD | FFC WIRE | |
| ⚠ | 10 | LC10716-002F-U | CHASSIS BASE | |
| ⚠ | 11 | LC11010-001A-U | AV BOARD | |
| | 12 | QYSBSB3012M | TAPPING SCREW | (×3)For AV BOARD |
| ⚠ | 13 | LC10856-001B-U | SIDE CONTROL BASE | |
| | 14 | LC31205-002A-U | CONTROL SHEET | |
| | 15 | QYSBSB3012M | TAPPING SCREW | (×1)For SIDE CONTROL BASE |
| | 16 | AEM4087-001-E | BUSHING | (×4) |
| | 17 | LC40506-001A | TAPPING SCREW | (×4) |
| | 18 | AEM3029-A11-E | STICK SHEET | |
| | 19 | LC11017-001A-U | SPEAKER ADAPTER | (×2) |
| | 20 | QAS0072-001 | SPEAKER | (×2) |
| | 21 | LC10858-001B-U | SPEAKER BOX | (×2) |
| ⚠ | 22 | CM46618-A01-E | POWER CORD CLAMP | |
| ⚠ | 23 | QMPN130-185-JC | POWER CORD | |
| ⚠ | 24 | LC11011-001C-U | REAR COVER | |
| ⚠ | 25 | LC20091-039A-U | RATING LABEL | [AV28S2EIGR] |
| ⚠ | 25 | LC20091-040A-U | RATING LABEL | [AV28S2EIBL] |
| | 26 | QYSBSAG4016N | TAPPING SCREW | (×10)For REAR COVER |


7 (× 4)
5
4
V01
6
CRT SOCKET PWB
6
L01
9
FRONT CONTROL PWB
16
17
18
19
20
21
T2551
10
8
POWER & DEF. PWB
MAIN PWB
16
17
AV SEL. PWB
13
14
15
SIDE CONTROL PWB
18
19
20
21
11
12 (× 3)
24
22
23
25 (EI MODEL)
25 (EK MODEL)
26 (× 10)

# AV28S2EKGR / AV28S2EKBL

## PRINTED WIRING BOARD PARTS LIST

### ■MAIN P.W. BOARD ASS'Y (SJK-1911A-U2)

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **RESISTOR** | | | |
| R1001 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1004-06 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1007 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1008 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1301 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1302 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1303 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| R1304 | QRG01GJ-121 | OM R | 120Ω 1W J |
| R1305 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1306 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1307 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1308 | NRSA02J-471X | MG R | 470Ω 1/10W J |
| R1309 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1310-11 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| R1312-13 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1314 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1316 | NRSA02J-224X | MG R | 220kΩ 1/10W J |
| R1317 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1318-21 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1327 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1328-29 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1330 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1331 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1332-33 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1335 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1336 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1337 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1338 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1339 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1340-41 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1342 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| R1343 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| R1344 | NRSA02J-471X | MG R | 470Ω 1/10W J |
| R1345 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1346 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1401-02 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1403 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1404 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1405 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1409 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1411 | NRVA02D-473X | MF R | 47kΩ 1/10W D |
| R1413 | NRVA02D-223X | MF R | 22kΩ 1/10W D |
| R1414 | NRVA02D-101X | MF R | 100Ω 1/10W D |
| R1415 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1416 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1417 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1418 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1419 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1420 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1501 | NRSA02J-621X | MG R | 620Ω 1/10W J |
| R1502 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1503 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1504 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1505-06 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1507 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1508-09 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1511 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1514 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1516 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1517 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1518 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1519 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1520 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| R1551 | QRK126J-100X | C R | 10Ω 1/2W J |
| R1552 | NRSA02J-124X | MG R | 120kΩ 1/10W J |
| R1553 | NRSA02J-683X | MG R | 68kΩ 1/10W J |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **RESISTOR** | | | |
| R1554 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1555 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1556 | NRSA02J-154X | MG R | 150kΩ 1/10W J |
| R1557-58 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1559 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1560 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1561 | QRK126J-100X | C R | 10Ω 1/2W J |
| R1571 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1572 | NRSA02J-133X | MG R | 13kΩ 1/10W J |
| R1573 | NRSA02J-821X | MG R | 820Ω 1/10W J |
| R1602 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1604 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| R1605 | NRSA02J-681X | MG R | 680Ω 1/10W J |
| R1606 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| R1607 | NRSA02J-681X | MG R | 680Ω 1/10W J |
| R1608-09 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1610-11 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1633 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1638 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1648 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1649 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1650 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1660 | QRK126J-2R2X | C R | 2.2Ω 1/2W J |
| R1661 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1663 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| R1664 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1683 | QRK126J-2R2X | C R | 2.2Ω 1/2W J |
| R1689 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1690 | QRG01GJ-270 | OM R | 27Ω 1W J |
| R1701 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1702 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1703 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1704 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1705 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1706 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1707-12 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1713-14 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1716 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1717 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1718-19 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1720 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1721 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1722 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1723 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1724-28 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1729-31 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1732 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1733 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1734 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1736-39 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1740 | NRSA02J-331X | MG R | 330Ω 1/10W J |
| R1741-42 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1745-47 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1748-52 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1753 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1754 | NRSA02J-683X | MG R | 68kΩ 1/10W J |
| R1755 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1756 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1758 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1759 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1760 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1762-63 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1764-66 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1767 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1770 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| R1771-73 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|

## RESISTOR

| | | | | | |
|---|---|---|---|---|---|
| R1774-75 | NRSA02J-333X | MG R | 33kΩ | 1/10W | J |
| R1777-79 | NRSA02J-222X | MG R | 2.2kΩ | 1/10W | J |
| R1780 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1784-85 | NRSA02J-223X | MG R | 22kΩ | 1/10W | J |
| R1786 | NRSA02J-473X | MG R | 47kΩ | 1/10W | J |
| R1787 | NRSA02J-332X | MG R | 3.3kΩ | 1/10W | J |
| R1788 | NRSA02J-272X | MG R | 2.7kΩ | 1/10W | J |
| R1789 | NRSA02J-473X | MG R | 47kΩ | 1/10W | J |
| R1790 | NRSA02J-682X | MG R | 6.8kΩ | 1/10W | J |
| R1801 | NRSA02J-333X | MG R | 33kΩ | 1/10W | J |
| R1802 | NRSA02J-222X | MG R | 2.2kΩ | 1/10W | J |
| R1804 | NRSA02J-473X | MG R | 47kΩ | 1/10W | J |
| R1805 | NRSA02J-332X | MG R | 3.3kΩ | 1/10W | J |
| R1806 | NRSA02J-184X | MG R | 180kΩ | 1/10W | J |
| R1834 | NRSA02J-473X | MG R | 47kΩ | 1/10W | J |
| R1835 | NRSA02J-152X | MG R | 1.5kΩ | 1/10W | J |
| R1837 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1838 | NRSA02J-393X | MG R | 39kΩ | 1/10W | J |
| R1839 | NRSA02J-332X | MG R | 3.3kΩ | 1/10W | J |
| R1840 | NRSA02J-152X | MG R | 1.5kΩ | 1/10W | J |
| R1841 | NRSA02J-331X | MG R | 330Ω | 1/10W | J |
| R1842 | NRSA02J-222X | MG R | 2.2kΩ | 1/10W | J |
| R1843 | NRSA02J-332X | MG R | 3.3kΩ | 1/10W | J |
| R1844 | NRSA02J-392X | MG R | 3.9kΩ | 1/10W | J |
| R1845 | NRSA02J-272X | MG R | 2.7kΩ | 1/10W | J |
| R1846 | NRSA02J-103X | MG R | 10kΩ | 1/10W | J |
| R1847-48 | NRSA02J-472X | MG R | 4.7kΩ | 1/10W | J |
| R1849 | NRSA02J-823X | MG R | 82kΩ | 1/10W | J |
| R1850-56 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1857 | NRSA02J-472X | MG R | 4.7kΩ | 1/10W | J |
| R1858 | NRSA02J-223X | MG R | 22kΩ | 1/10W | J |
| R1859 | NRSA02J-823X | MG R | 82kΩ | 1/10W | J |
| R1871 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1872-73 | NRSA02J-222X | MG R | 2.2kΩ | 1/10W | J |
| R1874 | NRSA02J-272X | MG R | 2.7kΩ | 1/10W | J |
| R1875 | NRSA02J-104X | MG R | 100kΩ | 1/10W | J |
| R1876 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1877 | NRSA02J-393X | MG R | 39kΩ | 1/10W | J |
| R1878-80 | NRSA02J-152X | MG R | 1.5kΩ | 1/10W | J |
| R1881-82 | NRSA02J-331X | MG R | 330Ω | 1/10W | J |
| R1883 | NRSA02J-102X | MG R | 1kΩ | 1/10W | J |
| R1884 | NRSA02J-331X | MG R | 330Ω | 1/10W | J |

## CAPACITOR

| | | | | | |
|---|---|---|---|---|---|
| C1001 | NCB21HK-222X | C CAP. | 2200pF | 50V | K |
| C1003 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1004 | QETN1CM-108Z | E CAP. | 1000μF | 16V | M |
| C1005 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1006 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1007 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1008 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1009 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1010 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1301 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1302 | NCB21HK-823X | CHIP CAP. | 0.082μF | 50V | K |
| C1303 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1304 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1305 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1306 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1307 | QETN1CM-477Z | E CAP. | 470μF | 16V | M |
| C1308 | NDC21HJ-120X | C CAP. | 12pF | 50V | J |
| C1309 | QETN1HM-475Z | E CAP. | 4.7μF | 50V | M |
| C1310 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1311 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1312 | NDC21HJ-680X | C CAP. | 68pF | 50V | J |
| C1313 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1314 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1315 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1319 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1320 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1321-23 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|

## CAPACITOR

| | | | | | |
|---|---|---|---|---|---|
| C1324-26 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1327 | QETN1HM-475Z | E CAP. | 4.7μF | 50V | M |
| C1328 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1329 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1331 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1332 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1333 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1401 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1403-05 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1406 | QFV71HJ-184Z | MF CAP. | 0.18μF | 50V | J |
| C1407 | QFV71HJ-824Z | MF CAP. | 0.82μF | 50V | J |
| C1408 | NCB21HK-153X | C CAP. | 0.015μF | 50V | K |
| C1501 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1502-04 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1505 | NCB21HK-332X | C CAP. | 3300pF | 50V | K |
| C1506 | QETN1HM-335Z | E CAP. | 3.3μF | 50V | M |
| C1507 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1508 | QETN1CM-108Z | E CAP. | 1000μF | 16V | M |
| C1509 | NCB21HK-823X | CHIP CAP. | 0.082μF | 50V | K |
| C1510-11 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1512 | QTMN1HM-105Z | E CAP. | 0.1μF | 50V | K |
| C1513 | QETN1CM-228Z | E CAP. | 2200μF | 16V | M |
| C1514 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1515 | QFV71HJ-394Z | MF CAP. | 0.39μF | 50V | J |
| C1516 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1551-52 | NCB21EK-224X | CHIP CAP. | 0.22μF | 25V | K |
| C1553 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1554-55 | NCB21EK-224X | CHIP CAP. | 0.22μF | 25V | K |
| C1571 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1601-02 | NCB21HK-103X | C CAP. | 0.01μF | 50V | K |
| C1603-04 | NCF21CZ-105X | C CAP. | 1μF | 16V | Z |
| C1606 | NRSA02J-0ROX | MG R | 0.0Ω | 1/10W | J |
| C1622-23 | QETN1CM-227Z | E CAP. | 220μF | 16V | M |
| C1625 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1635 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1636 | QETN1HM-107Z | E CAP. | 100μF | 50V | M |
| C1637 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1638-39 | NCF21HZ-224X | C CAP. | 0.22μF | 50V | Z |
| C1653 | NCF21HZ-224X | C CAP. | 0.22μF | 50V | Z |
| C1655 | NCF21HZ-224X | C CAP. | 0.22μF | 50V | Z |
| C1656 | QETM1HM-228 | E CAP. | 2200μF | 50V | M |
| C1661-62 | QETM1VM-108 | E CAP. | 1000μF | 35V | M |
| C1668 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1671 | QETN1CM-107Z | E CAP. | 100μF | 16V | M |
| C1672 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1701 | NCF21CZ-105X | C CAP. | 1μF | 16V | Z |
| C1703 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1704 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1705 | QETN1AM-107Z | E CAP. | 100μF | 10V | M |
| C1706 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1707 | QETN1HM-474Z | E CAP. | 0.47μF | 50V | M |
| C1708 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1709-10 | NDC21HJ-9ROX | C CAP. | 9.0pF | 50V | J |
| C1711 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1712 | NDC21HJ-151X | C CAP. | 150pF | 50V | J |
| C1713 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1714 | NDC21HJ-561X | C CAP. | 560pF | 50V | J |
| C1716-17 | QETN1HM-105Z | E CAP. | 1μF | 50V | M |
| C1718 | NCB21HK-333X | C CAP. | 0.033μF | 50V | K |
| C1725 | NCB21HK-102X | C CAP. | 1000pF | 50V | K |
| C1831 | QENC1CM-476Z | BP E CAP. | 47μF | 16V | M |
| C1832 | QETN1EM-476Z | E CAP. | 47μF | 25V | M |
| C1833 | NDC21HJ-221X | C CAP. | 220pF | 50V | J |
| C1834 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1835 | NDC21HJ-220X | C CAP. | 22pF | 50V | J |
| C1836-38 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1839 | QETN1HM-106Z | E CAP. | 10μF | 50V | M |
| C1871 | NCB21EK-104X | C CAP. | 0.1μF | 25V | K |
| C1872 | NCB21HK-223X | C CAP. | 0.022μF | 50V | K |
| C1873 | NDC21HJ-221X | C CAP. | 220pF | 50V | J |
| C1874-75 | NDC21HJ-150X | C CAP. | 15pF | 50V | J |
| C1876 | NCB21HK-102X | C CAP. | 1000pF | 50V | K |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| **CAPACITOR** | | | | |
| | C1877 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1878 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C1879 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| | C1880 | QETN1AM-477Z | E CAP. | 470µF 10V M |
| | C1881 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1882 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1883 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1884-85 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1886 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1887-89 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| **COIL** | | | | |
| | L1001 | QQL244K-5R6Z | COIL | 5.6µH K |
| | L1002 | QQL244K-270Z | PEAKING COIL | |
| | L1301-02 | QQL244K-4R7Z | COIL | 4.7µH K |
| | L1305 | QQL244K-4R7Z | COIL | 4.7µH K |
| | L1501 | QQL244J-151Z | PEAKING COIL | |
| | L1701 | QQL244K-4R7Z | COIL | 4.7µH K |
| | L1702 | QQL244K-3R9Z | COIL | 3.9µH K |
| | L1871 | QQL244K-4R7Z | COIL | 4.7µH K |
| **DIODE** | | | | |
| | D1301 | MA3051/M/-X | ZENER DIODE | |
| | D1302-04 | MA111-X | SI.DIODE | |
| | D1503 | RB100A-T2 | SI.DIODE | |
| | D1602 | MA111-X | SI.DIODE | |
| | D1608-10 | MA111-X | SI.DIODE | |
| | D1612-13 | MA111-X | SI.DIODE | |
| | D1617-18 | MA3330/L/-X | ZENER DIODE | |
| | D1624-25 | MA111-X | SI.DIODE | |
| | D1701 | MA3068/M/-X | ZENER DIODE | |
| | D1702 | MA111-X | SI.DIODE | |
| | D1704 | MA111-X | SI.DIODE | |
| | D1705 | MA3036-X | ZENER DIODE | |
| | D1706-08 | MA111-X | SI.DIODE | |
| | D1710 | MA111-X | SI.DIODE | |
| | D1831 | MA3051/M/-X | ZENER DIODE | |
| **TRANSISTOR** | | | | |
| | Q1301-02 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1309 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1310 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1311 | DTC124EKA-X | DIGI.TRANSISTOR | |
| | Q1312 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1401 | DTC124EKA-X | DIGI.TRANSISTOR | |
| | Q1402 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1601 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1602-03 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q1604 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1609 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1610 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q1612 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q1613 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1614 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1701-04 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1705-06 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1707 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1708 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1709-10 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1832-33 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1834 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1835-37 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q1871 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q1872 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| **IC** | | | | |
| | IC1301 | TB1227CN | I C | |
| | IC1302 | TC4053BP/N/ | I.C.(DIGI-MOS) | |
| | IC1501 | AN5441SA-W | I C | |
| | IC1551 | LA6515 | I.C.(MONO-ANA) | |
| | IC1601 | TA8246AH | I.C.(HYBRID) | |
| | IC1607 | BA05T | I.C.(MONO-ANA) | |
| | IC1701 | M37280MK-106SP | I.C.(MICRO-COMP) | |
| | IC1702 | AT24C16-32WFT1 | I.C. | (SERVICE) |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| **IC** | | | | |
| | IC1703 | L78LR05E-MA | I.C.(MONO-ANA) | |
| | IC1704 | JLC1562BF-X | I.C.(DIGI-MOS) | |
| | IC1831 | JCC5035 | I.C.(DIGI-MOS) | |
| | IC1832 | MN1382/Q/-X | I.C.(MONO-ANA) | |
| | IC1871 | ET417 | I.C.(M) | |
| | IC1872 | ET206 | I.C.(M) | |
| **OTHERS** | | | | |
| | CN1001 | QGF1220C2-25 | FFC/FPC CONNECTO | |
| | J1001 | QNN0296-001 | PIN JACK | |
| | K1001 | CE41433-001Z | BEADS CORE | |
| | K1004 | CE41433-001Z | BEADS CORE | |
| | K1307 | CE41433-001Z | BEADS CORE | |
| | K1601-02 | CE42681-001Y | BEADS CORE | |
| | K1872 | QQL244K-3R3Z | COIL | 3.3µH K |
| | LC1301 | CE42142-222Z | EMI FILTER | |
| | TU1001 | QAU0189-002 | TUNER | |
| | X1301 | QAX0305-001Z | CRYSTAL | |
| | X1701 | CST8.00MTW | CER.RESONATOR | |
| | X1831 | QAX0624-001Z | C RESONATOR | |
| | X1871 | CE41257-001Z | CRYSTAL | |

## ■ POWER & DEF. P.W. BOARD ASS'Y (SJK-2511A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| **RESISTOR** | | | | |
| | R2401 | QRE141J-682Y | C R | 6.8kΩ 1/4W J |
| ⚠ | R2402 | QRA14CF-6801Y | MF R | 6.8kΩ 1/4W F |
| ⚠ | R2403 | QRA14CF-3091Y | MF R | 3.09kΩ 1/4W F |
| | R2404-05 | QRA14CF-8200Y | MF R | 820Ω 1/4W F |
| | R2406 | QRE141J-103Y | C R | 10kΩ 1/4W J |
| | R2409 | QRE141J-103Y | C R | 10kΩ 1/4W J |
| | R2410 | QRE141J-102Y | C R | 1kΩ 1/4W J |
| | R2414 | QRE121J-100Y | C R | 10Ω 1/2W J |
| | R2415 | QRX01GJ-1R8 | MF R | 1.8Ω 1W J |
| | R2416 | QRG01GJ-820 | OM R | 82Ω 1W J |
| | R2417 | QRE121J-1R0Y | C R | 1.0Ω 1/2W J |
| | R2461 | QRE141J-331Y | C R | 330Ω 1/4W J |
| | R2463 | QRE121J-392Y | C R | 3.9kΩ 1/2W J |
| | R2464 | QRE121J-562Y | C R | 5.6kΩ 1/2W J |
| | R2465 | QRE121J-682Y | C R | 6.8kΩ 1/2W J |
| | R2466 | QRE121J-102Y | C R | 1kΩ 1/2W J |
| | R2467 | QRL039J-330 | OM R | 33Ω 3W J |
| | R2492 | QRE141J-683Y | C R | 68kΩ 1/4W J |
| | R2493 | QRE141J-224Y | C R | 220kΩ 1/4W J |
| | R2495 | QRE141J-103Y | C R | 10kΩ 1/4W J |
| | R2496 | QRE141J-183Y | C R | 18kΩ 1/4W J |
| | R2497 | QRE141J-153Y | C R | 15kΩ 1/4W J |
| | R2502 | QRE141J-222Y | C R | 2.2kΩ 1/4W J |
| | R2503 | QRE121J-152Y | C R | 1.5kΩ 1/2W J |
| | R2504 | QRL039J-272 | OM R | 2.7kΩ 3W J |
| | R2505 | QRL039J-332 | OM R | 3.3kΩ 3W J |
| | R2521 | QRE121J-150Y | C R | 15Ω 1/2W J |
| | R2522 | QRL039J-103 | OM R | 10kΩ 3W J |
| | R2523 | QRE121J-471Y | C R | 470Ω 1/2W J |
| | R2525 | QRE141J-152Y | C R | 1.5kΩ 1/4W J |
| | R2541 | QRE121J-103Y | C R | 10kΩ 1/2W J |
| | R2542 | QRE121J-222Y | C R | 2.2kΩ 1/2W J |
| | R2543 | QRE121J-124Y | C R | 120kΩ 1/2W J |
| | R2544 | QRE121J-104Y | C R | 100kΩ 1/2W J |
| | R2545 | QRE141J-123Y | C R | 12kΩ 1/4W J |
| | R2546 | QRE121J-104Y | C R | 100kΩ 1/2W J |
| | R2547 | QRE141J-123Y | C R | 12kΩ 1/4W J |
| | R2548 | QRE121J-222Y | C R | 2.2kΩ 1/2W J |
| | R2551-52 | QRT039J-1R5 | MF R | 1.5Ω 3W J |
| | R2553 | QRF104K-5R6 | UNF R | 5.6 Ω 10W K |
| | R2561 | QRL029J-220 | OM R | 22Ω 2W J |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R2562 | QRE121J-123Y | C R | 12kΩ 1/2W J |
| | R2563 | QRZ0056-103Z | COMP.R | 10kΩ 1/2W K |
| | R2591 | QRE121J-123Y | C R | 12kΩ 1/2W J |
| | R2592 | QRA14CF-1201Y | MF R | 1.2kΩ 1/4W F |
| | R2593 | QRE141J-183Y | C R | 18kΩ 1/4W J |
| | R2594 | QRE141J-222Y | C R | 2.2kΩ 1/4W J |
| ⚠ | R2595 | QRA14CF-1692Y | MF R | 16.9kΩ 1/4W F |
| ⚠ | R2596 | QRA14CF-2401Y | MF R | 2.4kΩ 1/4W F |
| | R2597 | QRE141J-273Y | C R | 27kΩ 1/4W J |
| ⚠ | R2902 | QRE121J-331Y | C R | 330Ω 1/2W J |
| | R2903 | QRF104K-3R9 | UNF R | 3.9kΩ 10W K |
| | R2904-05 | QRE121J-474Y | C R | 470kΩ 1/2W J |
| | R2907-08 | QRL039J-823 | OM R | 82kΩ 3W J |
| | R2909 | QRG039J-683 | OM R | 68kΩ 3W J |
| | R2910 | QRE121J-681Y | C R | 680Ω 1/2W J |
| | R2911 | QRM059J-R15 | MP R | 0.15 Ω 5W J |
| | R2912 | QRT029J-2R2 | MF R | 2.2Ω 2W J |
| | R2914 | QRE121J-272Y | C R | 2.7kΩ 1/2W J |
| | R2918 | QRE121J-332Y | C R | 3.3kΩ 1/2W J |
| | R2933 | QRE141J-102Y | C R | 1kΩ 1/4W J |
| | R2935 | QRE141J-473Y | C R | 47kΩ 1/4W J |
| | R2936 | QRE141J-103Y | C R | 10kΩ 1/4W J |
| | R2938 | QRE121J-102Y | C R | 1kΩ 1/2W J |
| | R2940 | QRE121J-390Y | C R | 39Ω 1/2W J |
| | R2964 | QRE121J-102Y | C R | 1kΩ 1/2W J |
| | R2967 | QRL039J-223 | OM R | 22kΩ 3W J |
| | R2976 | QRL029J-100 | OM R | 10Ω 2W J |
| ⚠ | R2991 | QRZ0057-825 | C R | 8.2MΩ 1W J |
| | **CAPACITOR** | | | |
| | C2401 | QEHR1VM-227Z | E CAP. | 220µF 35V M |
| | C2402 | QETM1VM-108 | E CAP. | 1000µF 35V M |
| | C2403 | QFLC2AJ-683Z | M CAP. | 0.068µF 100V J |
| | C2404 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C2405 | QFLC1HJ-472Z | M CAP. | 4700pF 50V J |
| | C2406 | QCZ0337-180Z | C CAP. | 18pF 2kV J |
| | C2407 | QFLC1HJ-102Z | M CAP. | 1000pF 50V J |
| | C2408 | QFV71HJ-334Z | MF CAP. | 0.33µF 50V J |
| | C2410 | QFV71HJ-334Z | MF CAP. | 0.33µF 50V J |
| | C2411 | QFLC2AJ-563Z | M CAP. | 0.056µF 100V J |
| | C2451 | QFV71HJ-104Z | MF CAP. | 0.1µF 50V J |
| | C2461 | QEZ0195-475Z | E CAP. | 4.7µF 50V M |
| | C2462 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C2463 | QFLC1HJ-153Z | M CAP. | 0.015µF 50V J |
| | C2464 | QFLC1HJ-333Z | M CAP. | 0.033µF 50V J |
| | C2491 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C2492 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C2502 | QCB32HK-681Z | C CAP. | 680pF 500V K |
| | C2503 | QEHR2CM-105Z | E CAP. | 1µF 160V M |
| ⚠ | C2521 | QFZ0200-282 | MPP CAP. | 2800pF1.5kVH ±3% |
| ⚠ | C2522 | QFZ0200-113 | MPP CAP. | 0.011µF1.5kVH ±3% |
| ⚠ | C2523 | QFP32GJ-183 | PP CAP. | 0.018µF 400V J |
| | C2524 | QFM72DK-563 | M CAP. | 0.056µF 200V K |
| | C2526 | QFZ0197-304 | MPP CAP. | 0.3µF 250V J |
| | C2527 | QEHR2EM-475Z | E CAP. | 4.7µF 250V M |
| | C2529 | QFZ0197-473 | MPP CAP. | 0.047µF 250V J |
| | C2530 | QCB32HK-561Z | C CAP. | 560pF 500V K |
| | C2531 | QFLC1HJ-103Z | M CAP. | 0.01µF 50V J |
| | C2533 | QCS32HJ-560Z | C CAP. | 56pF 500V J |
| | C2542 | QFZ0197-204 | MPP CAP. | 0.2µF 250V J |
| | C2543 | QFZ0197-184 | MPP CAP. | 0.18µF 250V J |
| | C2551 | QETN2EM-106Z | E CAP. | 10µF 250V M |
| | C2552 | QCB32HK-152Z | C CAP. | 1500pF 500V K |
| | C2553 | QEHR1EM-108Z | E CAP. | 1000µF 25V M |
| | C2554 | QCB32HK-152Z | C CAP. | 1500pF 500V K |
| | C2555 | QEHR1EM-108Z | E CAP. | 1000µF 25V M |
| | C2560 | QETM2CM-227 | E CAP. | 220µF 160V M |
| | C2561 | QFV71HJ-184Z | MF CAP. | 0.18µF 50V J |
| | C2591 | QETN1AM-107Z | E CAP. | 100µF 10V M |
| | C2592 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C2593 | QETN2AM-106Z | E CAP. | 10µF 100V M |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **CAPACITOR** | | | |
| | C2594 | QETN1AM-227Z | E CAP. | 220µF 10V M |
| ⚠ | C2901 | QFZ9040-473 | MF CAP. | 0.047µFAC275V M |
| ⚠ | C2904 | QCZ9054-472 | C CAP. | 4700pFAC250V Z |
| ⚠ | C2905 | QCZ9054-472 | C CAP. | 4700pFAC250V Z |
| ⚠ | C2906 | QCZ9054-472 | C CAP. | 4700pFAC250V M |
| | C2907 | QEZ0199-227 | E CAP. | 220µF 400V M |
| | C2908 | QCB32HK-103 | C CAP. | 0.01µF 500V K |
| | C2909 | QCZ0122-391 | C CAP. | 390pF 2000V K |
| | C2910 | QCZ0122-102 | C CAP. | 1000pF 2000V K |
| | C2912 | QCB31HK-471Z | C CAP. | 470pF 50V K |
| | C2913 | QETN1HM-476Z | E CAP. | 47µF 50V M |
| | C2916 | QETN1HM-107Z | E CAP. | 100µF 50V M |
| | C2918 | QCB31HK-681Z | C CAP. | 680pF 50V K |
| | C2933-34 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C2935 | QETN1EM-227Z | E CAP. | 220µF 25V M |
| | C2951 | QCZ0122-561 | C CAP. | 560pF 2000V K |
| | C2952 | QEZ0203-227 | E CAP. | 220µF 160V M |
| | C2953 | QCB32HK-391Z | C CAP. | 390pF 500V K |
| | C2954 | QTMM1EM-228 | E CAP. | 2200µF 25V M |
| | C2955 | QCB32HK-391Z | C CAP. | 390pF 500V K |
| | C2956 | QTMM1CM-228 | E CAP. | 2200µF 16V M |
| | C2958 | QCB32HK-391Z | C CAP. | 390pF 500V K |
| | C2959 | QETM1VM-228 | E CAP. | 2200µF 35V M |
| | C2964 | QFV71HJ-684Z | MF CAP. | 0.68µF 50V J |
| | C2968 | QCZ0120-104Z | C CAP. | 0.1µF 25V Z |
| | C2969 | QEHR1CM-477Z | E CAP. | 470µF 16V M |
| | C2970 | QEHR1CM-107Z | E CAP. | 100µF 16V M |
| | C2971 | QCZ0120-104Z | C CAP. | 0.1µF 25V Z |
| | C2972 | QETN1CM-227Z | E CAP. | 220µF 16V M |
| | C2973 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C2974 | QCZ0120-104Z | C CAP. | 0.1µF 25V Z |
| | C2975 | QETN1AM-227Z | E CAP. | 220µF 10V M |
| | C2976 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C2979 | QFV71HJ-104Z | MF CAP. | 0.1µF 50V J |
| ⚠ | C2991 | QCZ9079-332 | C CAP. | 3300pFAC250V M |
| ⚠ | C2992 | QCZ9079-471 | C CAP. | 470pFAC250V M |
| | **TRANSFORMER** | | | |
| | T2501 | CE42034-002 | H.DRIVE TRANSF. | |
| ⚠ | T2551 | QQH0089-002-I2 | H.V.TRANSF. (SERVICE)Within ANODE WIRE | |
| | T2561 | QQR0898-001 | DEF.TRANSF. | |
| ⚠ | T2901 | QQS0065-001 | SW TRANSF. | |
| ⚠ | T2921 | QQT0303-001 | POWER TRANSF. | |
| | **COIL** | | | |
| | L2461 | QQLZ027-821 | CHOKE COIL | |
| | L2521 | QQLZ028-501 | CHOKE COIL | |
| | L2522 | QQR1106-001 | LINEARITY COIL | |
| | L2561 | QQLZ028-272 | CHOKE COIL | |
| | L2901-02 | QQL402K-100 | COIL | 10µH K |
| ⚠ | L2903 | QQR0659-004 | CHOKE COIL | |
| | L2951 | QQLZ026-460 | HEATER CHOKE | |
| | L2952 | QQL26AK-820Z | COIL | 82µH K |
| | L2953-54 | QQL26AM-5R6Z | CHOKE COIL | |
| | **DIODE** | | | |
| | D2401 | MTZJ75-T2 | ZENER DIODE | |
| | D2402 | 1N4003-T2 | SI.DIODE | |
| | D2451 | BYD33D-T3 | SI.DIODE | |
| | D2491 | BYD33D-T3 | SI.DIODE | |
| | D2492 | MTZJ22B-T2 | ZENER DIODE | |
| | D2493-94 | 1SS133-T2 | SI.DIODE | |
| | D2521 | RH3G-F1 | SI.DIODE | |
| | D2522 | BYW95B-20 | SI.DIODE | |
| | D2523 | BYD33G-T3 | SI.DIODE | |
| | D2525 | MTZJ9.1B-T2 | ZENER DIODE | |
| | D2551 | BYD33G-T3 | SI.DIODE | |
| | D2553-54 | BYW95B-20 | SI.DIODE | |
| | D2591 | MTZJ15B-T2 | ZENER DIODE | |
| | D2592 | MTZJ7.5B-T2 | ZENER DIODE | |
| | D2593 | BYD33D-T3 | SI.DIODE | |
| | D2594 | MTZJ7.5S-T2 | ZENER DIODE | |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **DIODE** | | | |
| ⚠ | D2901 | D3SBA60 | DIODE BRIDGE | |
| | D2902 | BYD33M-T3 | SI.DIODE | |
| | D2904-05 | BYD33D-T3 | SI.DIODE | |
| | D2909 | 1SS133-T2 | SI.DIODE | |
| | D2911 | MTZJ15B-T2 | ZENER DIODE | |
| | D2913 | MTZJ27B-T2 | ZENER DIODE | |
| | D2931 | 1SS133-T2 | SI.DIODE | |
| | D2934 | MTZJ6.2B-T2 | ZENER DIODE | |
| | D2935-38 | 1N4003-T2 | SI.DIODE | |
| | D2939 | 1SS133-T2 | SI.DIODE | |
| | D2951 | RU4B-F1 | SI.DIODE | |
| | D2953-54 | BYW95B-20 | SI.DIODE | |
| | D2955 | FMX-G12S | SI.DIODE | |
| | D2958 | 1SR35-400A-T2 | SI.DIODE | |
| | D2963 | MTZJ3.9B-T2 | ZENER DIODE | |
| | D2964 | MTZJ33B-T2 | ZENER DIODE | |
| | D2981-83 | 1SS133-T2 | SI.DIODE | |
| | D2985 | MTZJ7.5C-T2 | ZENER DIODE | |
| | **TRANSISTOR** | | | |
| | Q2402 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q2461 | 2SD1408/OY/-LB | SI.TRANSISTOR | |
| | Q2462-63 | 2SA933AS/QR/-T | SI.TRANSISTOR | |
| | Q2501 | BSN304-T | F.E.T. | |
| ⚠ | Q2521 | 2SD2553-LB | SI.TRANSISTOR | H.OUT |
| | Q2541-42 | DTC124ESA-T | DIGI.TRANSISTOR | |
| | Q2543 | IRF620 | F.E.T. | |
| | Q2544-45 | 2SK2459N-F54 | F.E.T. | |
| | Q2546 | DTC124ESA-T | DIGI.TRANSISTOR | |
| | Q2591 | 2SA949/Y/Z1-T | SI.TRANSISTOR | |
| | Q2592 | DTC124ESA-T | DIGI.TRANSISTOR | |
| | Q2593 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q2931-32 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q2933 | 2SC2655/Y/-T | SI.TRANSISTOR | |
| | **IC** | | | |
| | IC2401 | LA7841 | I.C.(MONO-ANA) | |
| ⚠ | IC2901 | STR-F6667B/F7 | I C | |
| | IC2951 | SE140N | I.C.(HYBRID) | |
| | IC2952 | BA12T | I.C.(MONO-ANA) | |
| | IC2953 | BA17809T | I.C.(MONO-ANA) | |
| | IC2954 | BA05T | I.C.(MONO-ANA) | |
| | **OTHERS** | | | |
| ⚠ | CP2953 | ICP-N75-Y | I.C.PROTECT | |
| ⚠ | CP2956 | ICP-N10-Y | I.C.PROTECT | |
| ⚠ | CP2957 | ICP-N5-Y | I.C.PROTECT | |
| | K2401 | CE41433-001Z | BEADS CORE | |
| | K2503-04 | QQR0582-001Z | BEADS CORE | |
| | K2904 | QQR0679-001 | FERRITE BEADS | |
| | K2951 | QQR0872-001Y | FERRITE BEADS | |
| | K2952-54 | CE41433-001Z | BEADS CORE | |
| | PC2541-42 | PC123F2 | I.C.(PH.COUPLER) | |
| ⚠ | PC2901 | TLP721F(D4-GR) | I.C.(PH.COUPLER) | |
| ⚠ | R2494 | QRZ9017-4R7 | F R | 4.7 Ω 1/4W J |
| ⚠ | R2524 | QRZ9017-4R7 | F R | 4.7 Ω 1/4W J |
| ⚠ | R2554 | QRZ9022-R47 | F R | 0.47 Ω 1W K |
| ⚠ | R2555 | QRZ9011-4R7 | F R | 4.7 Ω 1/2W J |
| ⚠ | R2913 | QRZ9017-100 | F R | 10 Ω 1/4W J |
| ⚠ | RY2931 | QSK0099-001 | RELAY | |
| ⚠ | TH2901 | QAD012O-9R0 | P THERMISTOR | |

## ■ CRT SOCKET P.W. BOARD ASS'Y (SJK-3511A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R3101-03 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R3107-09 | NRSA02J-392X | MG R | 3.9kΩ 1/10W J |
| | R3110-12 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| | R3113-15 | NRSA02J-470X | MG R | 47Ω 1/10W J |
| | R3116-18 | QRL029J-153 | OM R | 15kΩ 2W J |
| | R3119-21 | QRL029J-183 | OM R | 18kΩ 2W J |
| | R3125-27 | QRZ0107-102Z | C R | 1.0kΩ 1/2W K |
| | R3130 | QRG01GJ-101 | OM R | 100Ω 1W J |
| | R3135 | QRZ0107-474Z | C R | 470kΩ 1/2W K |
| | R3136 | QRE121J-474Y | C R | 470kΩ 1/2W J |
| | R3137 | QRZ0107-102Z | C R | 1.0kΩ 1/2W K |
| | R3138 | QRE121J-105Y | C R | 1MΩ 1/2W J |
| | R3151 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R3152 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| | R3154 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| | R3303 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R3312 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R3313 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| | R3314 | NRSA02J-271X | MG R | 270Ω 1/10W J |
| | R3315 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R3316 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R3317 | NRSA02J-470X | MG R | 47Ω 1/10W J |
| ⚠ | R3318 | QRJ146J-100X | C R | 10Ω 1/4W J |
| | R3319 | NRSA02J-470X | MG R | 47Ω 1/10W J |
| | R3320 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R3321 | NRSA02J-390X | MG R | 39Ω 1/10W J |
| | R3322 | QRE121J-2R7Y | C R | 2.7Ω 1/2W J |
| | R3323-24 | QRE121J-563Y | C R | 56kΩ 1/2W J |
| | R3325 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R3326 | QRE121J-2R7Y | C R | 2.7Ω 1/2W J |
| | R3327 | NRSA02J-390X | MG R | 39Ω 1/10W J |
| | R3328 | NRSA02J-121X | MG R | 120Ω 1/10W J |
| | R3329 | QRL029J-391 | OM R | 390Ω 2W J |
| | **CAPACITOR** | | | |
| | C3101-03 | NDC21HJ-471X | C CAP. | 470pF 50V J |
| | C3104 | QETN1CM-107Z | E CAP. | 100μF 16V M |
| | C3105 | QETN1EM-476Z | E CAP. | 47μF 25V M |
| | C3107 | QETN1HM-106Z | E CAP. | 10μF 50V M |
| | C3113 | QCZ0131-222 | C CAP. | 2200pF 2000V K |
| | C3114 | QETM2EM-336 | E CAP. | 33μF 250V M |
| | C3115 | QETM2EM-106 | E CAP. | 10μF 250V M |
| | C3116 | NDC21HJ-471X | C CAP. | 470pF 50V J |
| | C3304 | NCB21HK-103X | C CAP. | 0.01μF 50V K |
| | C3305 | QETN1HM-335Z | E CAP. | 3.3μF 50V M |
| | C3306 | QETN1CM-107Z | E CAP. | 100μF 16V M |
| | C3307 | NDC21HJ-5R0X | C CAP. | 5.0pF 50V J |
| | C3308 | QETN2CM-106Z | E CAP. | 10μF 160V M |
| | C3309 | QCB32HK-472Z | C CAP. | 4700pF 500V K |
| | C3310 | QETN2CM-106Z | E CAP. | 10μF 160V M |
| | C3311 | NDC21HJ-821X | C CAP. | 820pF 50V J |
| | C3312 | QCB32HK-472Z | C CAP. | 4700pF 500V K |
| | C3313 | NDC21HJ-561X | C CAP. | 560pF 50V J |
| | C3314 | QETN1CM-107Z | E CAP. | 100μF 16V M |
| | C3315 | QCS32HJ-680Z | C CAP. | 68pF 500V J |
| | C3316 | QETN1CM-107Z | E CAP. | 100μF 16V M |
| | C3317 | QETN1AM-337Z | E CAP. | 330μF 10V M |
| | **COIL** | | | |
| | L3301 | QQL244J-391Z | CHIP C CAPACITOR | |
| | **DIODE** | | | |
| | D3151 | MA111-X | SI.DIODE | |
| | D3152 | MA3082/L/-X | ZENER DIODE | |
| | D3153-55 | MA111-X | SI.DIODE | |
| | D3156 | MA3047/H/-X | ZENER DIODE | |
| | D3163 | MA3150/M/-X | ZENER DIODE | |
| | D3164 | 1SR35-400A-T2 | SI.DIODE | |
| | D3302-03 | RH1S-T3 | SI.DIODE | |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **TRANSISTOR** | | | |
| | Q3101-03 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q3104-06 | 2SC4544-LB | SI.TRANSISTOR | |
| | Q3151 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q3152 | 2SC4682-T | SI.TRANSISTOR | |
| | Q3304-05 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q3306 | 2SA933AS/QR/-T | SI.TRANSISTOR | |
| | Q3307 | 2SA1837 | SI.TRANSISTOR | |
| | Q3308 | 2SC4793 | SI.TRANSISTOR | |
| | **OTHERS** | | | |
| ⚠ | FR3330 | QRZ9021-561 | F R | 560 Ω 1W J |
| | K3101 | CE41433-001Z | BEADS CORE | |
| | K3301-04 | CE41492-001Z | CHOKE COIL | |
| ⚠ | SK3001 | CE42670-001 | C.R.T.SOCKET | |

## ■ FRONT CONTROL P.W. BOARD ASS'Y (SJK-8511A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R8003 | NRSA02J-332X | MG R | 3.3kΩ 1/10W J |
| | R8004 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| | R8005 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| | R8008 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R8020 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R8039 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| | **CAPACITOR** | | | |
| | C8003 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C8004 | NCB21HK-104X | CHIP CAP. | 0.1µF 50V K |
| | C8022 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| ⚠ | C8901 | QFZ9040-474 | MF CAP. | 0.47µFAC275V M |
| | **DIODE** | | | |
| | D8007 | P1241-04 | C.D.S. | |
| | D8008 | MA111-X | SI.DIODE | |
| | D8010 | SPR-39MVWF | L.E.D. | |
| | D8011 | MA111-X | SI.DIODE | |
| | D8014 | MA3068/M/-X | ZENER DIODE | |
| | **TRANSISTOR** | | | |
| | Q8001 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q8003-04 | DTA124EKA-X | DIGI.TRANSISTOR | |
| | **IC** | | | |
| | IC8001 | GP1U281Q | IFR DETECT UNIT | |
| | **OTHERS** | | | |
| | | CM35921-005-H | CDS HOLDER | |
| | | LC30349-001A-H | L.E.D.HOLDER | |
| | | CEMG002-001Z | FUSE CLIP | |
| | CN8001 | QGF1220C2-25 | FFC/FPC CONNECTO | |
| ⚠ | F8901 | QMF51D2-3R15J1 | FUSE | 3.15A |
| ⚠ | LF8901 | QQR1095-001 | LINE FILTER | |
| ⚠ | LF8902 | QQR1095-001 | LINE FILTER | |
| ⚠ | S8901 | QSW0824-001 | PUSH SWITCH | |

## ■ SIDE CONTROL P.W. BOARD ASS'Y (SJK-8551A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R8001-02 | QRE121J-271Y | C R | 270Ω 1/2W J |
| | R8010-12 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R8021-22 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R8317 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | **CAPACITOR** | | | |
| | C8001-02 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C8003-04 | NDC21HJ-102X | C CAP. | 1000pF 50V J |
| | C8310-11 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C8321 | NCB21HK-104X | CHIP CAP. | 0.1µF 50V K |
| | **COIL** | | | |
| | L8001 | QQR0716-001Z | LEAD CORE | |
| | L8002-03 | QQL244K-5R6Z | COIL | 5.6µH K |
| | L8310-11 | QQL244K-270Z | PEAKING COIL | |
| | L8312 | QQR0716-001Z | LEAD CORE | |
| | **OTHERS** | | | |
| | J8001 | QNS0169-001 | PIN JACK | |
| | J8303 | QNZ0438-001 | JACK | |
| | S8001 | QSW0619-003Z | PUSH SWITCH | CH UP |
| | S8002 | QSW0619-003Z | PUSH SWITCH | VR |
| | S8003 | QSW0619-003Z | PUSH SWITCH | CH DOWN |

## ■ AV SEL. P.W. BOARD ASS'Y (SJK0S911A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R0101-08 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0110 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0112 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0113 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0114 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0115-16 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0117-18 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0119-20 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0123 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R0124-25 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0126 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0127 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0128 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0129 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0130 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0131 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0132 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0133 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0134 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0135 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0136-37 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0138 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0139 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0140 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0141 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0142 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0143 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0144 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0146 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0148 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0151 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R0152 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0153 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0154 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0155 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0156-69 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0170 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0171 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |

## RESISTOR

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | R0172 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0173 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0174 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0175 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0176 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0177 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0180-83 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0184 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0185 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0186 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0188 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0189-90 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| | R0191-92 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0193-94 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0195 | QRG01GJ-101 | OM R | 100Ω 1W J |
| | R0197 | QRK126J-181X | C R | 180Ω 1/2W J |
| | R0198 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0199 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0202 | QRK126J-151X | C R | 150Ω 1/2W J |
| | R0203-05 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0207 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0208 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0209 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0210 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0211-12 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0301 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0302 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0303-04 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0305 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0309 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0310 | NRSA02J-392X | MG R | 3.9kΩ 1/10W J |
| | R0313 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0314 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0315 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0316 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0317 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0318-19 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0320 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0321 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0322 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0323 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0324 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0325 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0603 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0606 | QRG01GJ-181 | OM R | 180Ω 1W J |
| | R0607 | NRSA02J-123X | MG R | 12kΩ 1/10W J |
| | R0608 | NRSA02J-181X | MG R | 180Ω 1/10W J |
| | R0609 | NRSA02J-123X | MG R | 12kΩ 1/10W J |
| | R0610 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| | R0614 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0615 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0617 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0619-20 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0622 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0623 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0628 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| | R0629-30 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0631 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0632 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0633 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R0634 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0635 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R0636 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0638 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0647-48 | NRSA02J-101X | MG R | 100Ω 1/10W J |

## CAPACITOR

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | C0101 | NDC21HJ-151X | C CAP. | 150pF 50V J |
| | C0102 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C0103-05 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0106 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0107 | NCB21HK-152X | C CAP. | 1500pF 50V K |

## CAPACITOR

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | C0108 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0109 | NCB21HK-152X | C CAP. | 1500pF 50V K |
| | C0110 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C0111-12 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0113 | NDC21HJ-151X | C CAP. | 150pF 50V J |
| | C0114-15 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0116-17 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0118 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0119 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0120 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0121 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0122 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0123 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0124-25 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0126 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0127 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0128 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0129 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0130 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0131 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0132 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0133 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0136 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0137 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0139 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0140 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0141 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0142 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0143 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0144 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0145-46 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0147 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C0149 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0150-51 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0152-53 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0154-55 | NDC21HJ-680X | C CAP. | 68pF 50V J |
| | C0156 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0157-58 | NDC21HJ-680X | C CAP. | 68pF 50V J |
| | C0159 | NDC21HJ-561X | C CAP. | 560pF 50V J |
| | C0160 | NDC21HJ-102X | C CAP. | 1000pF 50V J |
| | C0301 | NDC21HJ-271X | C CAP. | 270pF 50V J |
| | C0306-07 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0308 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0310-11 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0312 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0313 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0610 | NDC21HJ-821X | C CAP. | 820pF 50V J |
| | C0611-12 | NDC21HJ-470X | C CAP. | 47pF 50V J |
| | C0614 | NDC21HJ-180X | C CAP. | 18pF 50V J |
| | C0616 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0617 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0618 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0619 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0620 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0621-22 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0623 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0624 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0625 | NCB21HK-332X | C CAP. | 3300pF 50V K |
| | C0626 | NCB21HK-333X | C CAP. | 0.033µF 50V K |
| | C0627 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0628 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C0629 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0630-31 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0632 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0633 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0634-35 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0636 | NDC21HJ-2R0X | C CAP. | 2.0pF 50V J |
| | C0637 | NCB21HK-332X | C CAP. | 3300pF 50V K |
| | C0638 | NCB21HK-333X | C CAP. | 0.033µF 50V K |
| | C0639 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0640 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C0641 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0642 | NDC21HJ-2R0X | C CAP. | 2.0pF 50V J |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| **CAPACITOR** | | | | |
| | C0643 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0645 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0646 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0647 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0648 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C0649 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0650 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| | C0651 | NCB21HK-562X | C CAP. | 5600pF 50V K |
| | C0652 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C0653 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| | C0654 | NCB21HK-562X | C CAP. | 5600pF 50V K |
| | C0659-60 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0677-78 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| **COIL** | | | | |
| | L0114 | QQR0716-001Z | LEAD CORE | |
| | L0301 | QQL244J-221Z | PEAKING COIL | |
| | L0601 | QQL244K-220Z | PEAKING COIL | |
| | L0602 | QQL244K-180Z | COIL | 18µH K |
| | L0604 | QQL244K-100Z | COIL | 10µH K |
| | L0605 | QQL244K-4R7Z | COIL | 4.7µH K |
| **DIODE** | | | | |
| | D0101-13 | MA3120/M/-X | ZENER DIODE | |
| | D0601 | RD8.2E/B2/-T2 | ZENER DIODE | |
| | D0602 | MA3062/M/-X | ZENER DIODE | |
| **TRANSISTOR** | | | | |
| | Q0101 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q0102 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q0103 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q0104-07 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q0108 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q0109-10 | DTC323TK-X | DIGI.TRANSISTOR | |
| | Q0111-12 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q0116 | 2SA933AS/QR/-T | SI.TRANSISTOR | |
| | Q0118 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| | Q0119-20 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q0301 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q0302-03 | DTC124EKA-X | DIGI.TRANSISTOR | |
| | Q0304-05 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q0306 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q0307 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| | Q0308 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| | Q0601 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| **IC** | | | | |
| | IC0101 | CXA2089Q-X | I C | |
| | IC0302 | TDA9181T/N1-X | I.C.(MONO-ANA) | |
| | IC0602 | NJM2150AM-X | I.C.(MONO-ANA) | |
| | IC0603 | MSP3415DQGB3GHX | I.C.(MONO-ANA) | |
| | IC0604 | BA4558F-X | I.C.(MONO-ANA) | |
| **OTHERS** | | | | |
| | J0001 | QNZ0465-001 | PIN CONNECTOR | |
| | J0002 | QNZ0463-001 | PIN CONNECTOR | |
| | K0101-04 | CE42681-001Y | BEADS CORE | |
| | K0301 | CE41433-001Z | BEADS CORE | |
| | K0601 | CE41433-001Z | BEADS CORE | |
| | LC0601-02 | CE42482-103Y | EMI FILTER | |
| | X0601 | CE42546-001Z | CRYSTAL | |

# AV28S2EIGR / AV28S2EIBL

## PRINTED WIRING BOARD PARTS LIST

### ■MAIN P.W. BOARD ASS'Y (SJK-1711A-U2)

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **RESISTOR** | | | |
| R1001 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1002-03 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1004-06 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1007 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1008 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1009-10 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1301 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1302 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1303 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| R1304 | QRG01GJ-121 | OM R | 120Ω 1W J |
| R1305 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1306 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1307 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1308 | NRSA02J-471X | MG R | 470Ω 1/10W J |
| R1309 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1310-11 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| R1312-13 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1314 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1316 | NRSA02J-224X | MG R | 220kΩ 1/10W J |
| R1317 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1318-21 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1327 | NRSA02J-471X | MG R | 470Ω 1/10W J |
| R1328-29 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1330 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1331 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1332-33 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1335 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1336 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1337 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1338 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1339 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1340-41 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1342 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| R1343 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| R1344 | NRSA02J-471X | MG R | 470Ω 1/10W J |
| R1345 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1346 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1401-02 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1403 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1404 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1405 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1409 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1411 | NRVA02D-473X | MF R | 47kΩ 1/10W D |
| R1413 | NRVA02D-223X | MF R | 22kΩ 1/10W D |
| R1414 | NRVA02D-101X | MF R | 100Ω 1/10W D |
| R1415 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1416 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1417 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1418 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1419 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1420 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1501 | NRSA02J-621X | MG R | 620Ω 1/10W J |
| R1502 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1503 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1504 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1505-06 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1507 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1508-09 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1511 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1514 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1516 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| R1517 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1518 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1519 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1520 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| R1551 | QRK126J-100X | C R | 10Ω 1/2W J |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **RESISTOR** | | | |
| R1552 | NRSA02J-124X | MG R | 120kΩ 1/10W J |
| R1553 | NRSA02J-683X | MG R | 68kΩ 1/10W J |
| R1554 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| R1555 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1556 | NRSA02J-154X | MG R | 150kΩ 1/10W J |
| R1557-58 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1559 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| R1560 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1561 | QRK126J-100X | C R | 10Ω 1/2W J |
| R1571 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1572 | NRSA02J-133X | MG R | 13kΩ 1/10W J |
| R1573 | NRSA02J-821X | MG R | 820Ω 1/10W J |
| R1602 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1604 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| R1605 | NRSA02J-681X | MG R | 680Ω 1/10W J |
| R1606 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| R1607 | NRSA02J-681X | MG R | 680Ω 1/10W J |
| R1608-09 | NRSA02J-183X | MG R | 18kΩ 1/10W J |
| R1610-11 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1633 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1638 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1648 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1649 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1650 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1660 | QRK126J-2R2X | C R | 2.2Ω 1/2W J |
| R1661 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1663 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| R1664 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1683 | QRK126J-2R2X | C R | 2.2Ω 1/2W J |
| R1689 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1690 | QRG01GJ-270 | OM R | 27Ω 1W J |
| R1701 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1702 | NRSA02J-822X | MG R | 8.2kΩ 1/10W J |
| R1703 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| R1704 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| R1705 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1706 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1707-12 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1713-14 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1716 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1717 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| R1718-19 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| R1720 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1721 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1722 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1723 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1724-28 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1729-31 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1732 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| R1733 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1734 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| R1736-39 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1740 | NRSA02J-331X | MG R | 330Ω 1/10W J |
| R1741-42 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1743-44 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| R1745-47 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1748-52 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1753 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1754 | NRSA02J-683X | MG R | 68kΩ 1/10W J |
| R1755 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| R1756 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1759 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| R1763 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1764-66 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| R1767 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| R1770 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R1771-73 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R1774-75 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R1777-79 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R1780 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1784-85 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R1786 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R1787 | NRSA02J-332X | MG R | 3.3kΩ 1/10W J |
| | R1788 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R1789 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R1790 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R1801 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R1802 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R1804 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R1805 | NRSA02J-332X | MG R | 3.3kΩ 1/10W J |
| | R1806 | NRSA02J-184X | MG R | 180kΩ 1/10W J |
| | R1834 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R1835 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| | R1837 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1838 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| | R1839 | NRSA02J-332X | MG R | 3.3kΩ 1/10W J |
| | R1840 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| | R1841 | NRSA02J-331X | MG R | 330Ω 1/10W J |
| | R1842 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R1843 | NRSA02J-332X | MG R | 3.3kΩ 1/10W J |
| | R1844 | NRSA02J-392X | MG R | 3.9kΩ 1/10W J |
| | R1845 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R1846 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R1847-48 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| | R1849 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R1850-56 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1857 | NRSA02J-472X | MG R | 4.7kΩ 1/10W J |
| | R1858 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R1859 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R1871 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1872-73 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R1874 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R1875 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R1876 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1877 | NRSA02J-393X | MG R | 39kΩ 1/10W J |
| | R1878-80 | NRSA02J-152X | MG R | 1.5kΩ 1/10W J |
| | R1881-82 | NRSA02J-331X | MG R | 330Ω 1/10W J |
| | R1883 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R1884 | NRSA02J-331X | MG R | 330Ω 1/10W J |
| | **CAPACITOR** | | | |
| | C1001 | NCB21HK-222X | C CAP. | 2200pF 50V K |
| | C1003 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1004 | QETN1CM-108Z | E CAP. | 1000µF 16V M |
| | C1005 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1006 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1007 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1008 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1009 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1010 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1301 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1302 | NCB21HK-823X | CHIP CAP. | 0.082µF 50V K |
| | C1303 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1304 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1305 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1306 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1307 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C1308 | NDC21HJ-120X | C CAP. | 12pF 50V J |
| | C1309 | QETN1HM-475Z | E CAP. | 4.7µF 50V M |
| | C1310 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1311 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1312 | NDC21HJ-680X | C CAP. | 68pF 50V J |
| | C1313 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1314 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1315 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1319 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1320 | NCB21HK-103X | C CAP. | 0.01µF 50V K |

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **CAPACITOR** | | | |
| | C1321-23 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1324-26 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1327 | QETN1HM-475Z | E CAP. | 4.7µF 50V M |
| | C1328 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1329 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1330 | NDC21HJ-390X | C CAP. | 39pF 50V J |
| | C1331 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1332 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1333 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1401 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1403-05 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1406 | QFV71HJ-184Z | MF CAP. | 0.18µF 50V J |
| | C1407 | QFV71HJ-824Z | MF CAP. | 0.82µF 50V J |
| | C1408 | NCB21HK-153X | C CAP. | 0.015µF 50V K |
| | C1501 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1502-04 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1505 | NCB21HK-332X | C CAP. | 3300pF 50V K |
| | C1506 | QETN1HM-335Z | E CAP. | 3.3µF 50V M |
| | C1507 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1508 | QETN1CM-108Z | E CAP. | 1000µF 16V M |
| | C1509 | NCB21HK-823X | CHIP CAP. | 0.082µF 50V K |
| | C1510-11 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1512 | QTMN1HM-105Z | E CAP. | 0.1µF 50V K |
| | C1513 | QETN1CM-228Z | E CAP. | 2200µF 16V M |
| | C1514 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1515 | QFV71HJ-394Z | MF CAP. | 0.39µF 50V J |
| | C1516 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1551-52 | NCB21EK-224X | CHIP CAP. | 0.22µF 25V K |
| | C1553 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1554-55 | NCB21EK-224X | CHIP CAP. | 0.22µF 25V K |
| | C1571 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1601-02 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C1603-04 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C1606 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| | C1622-23 | QETN1CM-227Z | E CAP. | 220µF 16V M |
| | C1625 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1635 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1636 | QETN1HM-107Z | E CAP. | 100µF 50V M |
| | C1637 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1638-39 | NCF21HZ-224X | C CAP. | 0.22µF 50V Z |
| | C1653 | NCF21HZ-224X | C CAP. | 0.22µF 50V Z |
| | C1655 | NCF21HZ-224X | C CAP. | 0.22µF 50V Z |
| | C1656 | QETM1HM-228 | E CAP. | 2200µF 50V M |
| | C1661-62 | QETM1VM-108 | E CAP. | 1000µF 35V M |
| | C1668 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1671 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C1672 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1701 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C1703 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1704 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1705 | QETN1AM-107Z | E CAP. | 100µF 10V M |
| | C1706 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1707 | QETN1HM-474Z | E CAP. | 0.47µF 50V M |
| | C1708 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1709-10 | NDC21HJ-9R0X | C CAP. | 9.0pF 50V J |
| | C1711 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1712 | NDC21HJ-151X | C CAP. | 150pF 50V J |
| | C1713 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1714 | NDC21HJ-561X | C CAP. | 560pF 50V J |
| | C1716-17 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C1718 | NCB21HK-333X | C CAP. | 0.033µF 50V K |
| | C1725 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C1831 | QENC1CM-476Z | BP E CAP. | 47µF 16V M |
| | C1832 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| | C1833 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| | C1834 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1835 | NDC21HJ-220X | C CAP. | 22pF 50V J |
| | C1836-38 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1839 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C1871 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| | C1872 | NCB21HK-223X | C CAP. | 0.022µF 50V K |
| | C1873 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| | C1874-75 | NDC21HJ-150X | C CAP. | 15pF 50V J |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **CAPACITOR** | | | |
| C1876 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| C1877 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C1878 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| C1879 | NDC21HJ-180X | C CAP. | 18pF 50V J |
| C1880 | QETN1AM-477Z | E CAP. | 470µF 10V M |
| C1881 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C1882 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| C1883 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C1884-85 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C1886 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C1887-89 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| **COIL** | | | |
| L1001 | QQL244K-5R6Z | COIL | 5.6µH K |
| L1002 | QQL244K-270Z | PEAKING COIL | |
| L1301-02 | QQL244K-4R7Z | COIL | 4.7µH K |
| L1305 | QQL244K-4R7Z | COIL | 4.7µH K |
| L1306 | QQL244K-330Z | COIL | 33µH K |
| L1501 | QQL244J-151Z | PEAKING COIL | |
| L1701 | QQL244K-4R7Z | COIL | 4.7µH K |
| L1702 | QQL244K-3R9Z | COIL | 3.9µH K |
| L1871 | QQL244K-4R7Z | COIL | 4.7µH K |
| **DIODE** | | | |
| D1301 | MA3051/M/-X | ZENER DIODE | |
| D1302-04 | MA111-X | SI.DIODE | |
| D1503 | RB100A-T2 | SI.DIODE | |
| D1602 | MA111-X | SI.DIODE | |
| D1608-10 | MA111-X | SI.DIODE | |
| D1612-13 | MA111-X | SI.DIODE | |
| D1617-18 | MA3330/L/-X | ZENER DIODE | |
| D1624-25 | MA111-X | SI.DIODE | |
| D1701 | MA3068/M/-X | ZENER DIODE | |
| D1702 | MA111-X | SI.DIODE | |
| D1704 | MA111-X | SI.DIODE | |
| D1705 | MA3036-X | ZENER DIODE | |
| D1706-08 | MA111-X | SI.DIODE | |
| D1710 | MA111-X | SI.DIODE | |
| D1831 | MA3051/M/-X | ZENER DIODE | |
| **TRANSISTOR** | | | |
| Q1301-02 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1308 | DTC124EKA-X | DIGI.TRANSISTOR | |
| Q1309 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1310 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1311 | DTC124EKA-X | DIGI.TRANSISTOR | |
| Q1312 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1401 | DTC124EKA-X | DIGI.TRANSISTOR | |
| Q1402 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1601 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1602-03 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q1604 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1609 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1610 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q1612 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q1613 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1614 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1701-04 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1705-06 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1707 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1708 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1709-10 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1832-33 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1834 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1835-37 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q1871 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q1872 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| **IC** | | | |
| IC1301 | TB1227CN | I C | |
| IC1302 | TC4053BP/N/ | I.C.(DIGI-MOS) | |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **IC** | | | |
| IC1501 | AN5441SA-W | I C | |
| IC1551 | LA6515 | I.C.(MONO-ANA) | |
| IC1601 | TA8246AH | I.C.(HYBRID) | |
| IC1607 | BA05T | I.C.(MONO-ANA) | |
| IC1701 | M37280MK-106SP | I.C.(MICRO-COMP) | |
| IC1702 | AT24C16-32WFT1 | I.C. | (SERVICE) |
| IC1703 | L78LR05E-MA | I.C.(MONO-ANA) | |
| IC1704 | JLC1562BF-X | I.C.(DIGI-MOS) | |
| IC1831 | JCC5035 | I.C.(DIGI-MOS) | |
| IC1832 | MN1382/Q/-X | I.C.(MONO-ANA) | |
| IC1871 | ET417 | I.C.(M) | |
| IC1872 | ET206 | I.C.(M) | |
| **OTHERS** | | | |
| CN1001 | QGF1220C2-25 | FFC/FPC CONNECTO | |
| J1001 | QNN0296-001 | PIN JACK | |
| K1001 | CE41433-001Z | BEADS CORE | |
| K1004 | CE41433-001Z | BEADS CORE | |
| K1307 | CE41433-001Z | BEADS CORE | |
| K1601-02 | CE42681-001Y | BEADS CORE | |
| K1872 | QQL244K-3R3Z | COIL | 3.3µH K |
| LC1301 | CE42142-222Z | EMI FILTER | |
| TU1001 | QAU0188-003 | TUNER | |
| X1301 | QAX0305-001Z | CRYSTAL | |
| X1701 | CST8.00MTW | CER.RESONATOR | |
| X1831 | QAX0624-001Z | C RESONATOR | |
| X1871 | CE41257-001Z | CRYSTAL | |

## ■ POWER & DEF. P.W. BOARD ASS'Y (SJK-2511A-U2)

Refer to PARTS LIST in page 38 for this P.W. board.

## ■ CRT SOCKET P.W. BOARD ASS'Y (SJK-3511A-U2)

Refer to PARTS LIST in page 40 for this P.W. board.

## ■ FRONT CONTROL P.W. BOARD ASS'Y (SJK-8511A-U2)

Refer to PARTS LIST in page 41 for this P.W. board.

## ■ SIDE CONTROL P.W. BOARD ASS'Y (SJK-8551A-U2)

Refer to PARTS LIST in page 41 for this P.W. board.

## ■AV SEL. P.W. BOARD ASS'Y (SJK0S711A-U2)

| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R0101-08 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0110 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0112 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0113 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0114 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0115-16 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0117-18 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0119-20 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0123 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R0124-25 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0126 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0127 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0128 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0129 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0130 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0131 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0132 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0133 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0134 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0135 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0136-37 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0138 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0139 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0140 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0141 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0142 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0143 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0144 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0146 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0148 | NRSA02J-391X | MG R | 390Ω 1/10W J |
| | R0151 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R0152 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0153 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0154 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0155 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0156-69 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0170 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0171 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0172 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0173 | NRSA02J-823X | MG R | 82kΩ 1/10W J |
| | R0174 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0175 | NRSA02J-153X | MG R | 15kΩ 1/10W J |
| | R0176 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0177 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0180-83 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0184 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0185 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0186 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0188 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0189-90 | NRSA02J-221X | MG R | 220Ω 1/10W J |
| | R0191-92 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0193-94 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0195 | QRG01GJ-101 | OM R | 100Ω 1W J |
| | R0197 | QRK126J-181X | C R | 180Ω 1/2W J |
| | R0198 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0199 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0202 | QRK126J-151X | C R | 150Ω 1/2W J |
| | R0203-05 | NRSA02J-750X | MG R | 75Ω 1/10W J |
| | R0207 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0208 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0209 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0210 | NRSA02J-333X | MG R | 33kΩ 1/10W J |
| | R0211-12 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0301 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0302 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0303-04 | NRSA02J-222X | MG R | 2.2kΩ 1/10W J |
| | R0305 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0309 | NRSA02J-562X | MG R | 5.6kΩ 1/10W J |
| | R0310 | NRSA02J-392X | MG R | 3.9kΩ 1/10W J |
| | R0313 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0314 | NRSA02J-473X | MG R | 47kΩ 1/10W J |

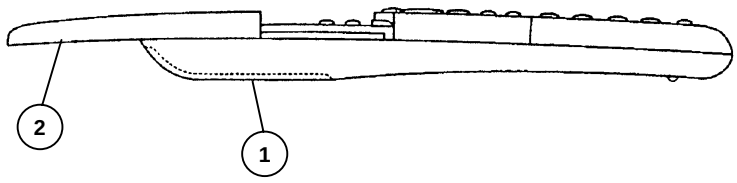
| ⚠ | Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | **RESISTOR** | | | |
| | R0315 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0316 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0317 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0318-19 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0320 | NRSA02J-473X | MG R | 47kΩ 1/10W J |
| | R0321 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0322 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0323 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0324 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0325 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0603 | NRSA02J-102X | MG R | 1kΩ 1/10W J |
| | R0606 | QRG01GJ-181 | OM R | 180Ω 1W J |
| | R0607 | NRSA02J-123X | MG R | 12kΩ 1/10W J |
| | R0608 | NRSA02J-181X | MG R | 180Ω 1/10W J |
| | R0609 | NRSA02J-123X | MG R | 12kΩ 1/10W J |
| | R0610 | NRSA02J-561X | MG R | 560Ω 1/10W J |
| | R0614 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0615 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0617 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0619-20 | NRSA02J-103X | MG R | 10kΩ 1/10W J |
| | R0622 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0623 | NRSA02J-273X | MG R | 27kΩ 1/10W J |
| | R0624 | NRSA02J-104X | MG R | 100kΩ 1/10W J |
| | R0628 | NRSA02J-0R0X | MG R | 0.0Ω 1/10W J |
| | R0629-30 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | R0631 | NRSA02J-122X | MG R | 1.2kΩ 1/10W J |
| | R0632 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0633 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R0634 | NRSA02J-223X | MG R | 22kΩ 1/10W J |
| | R0635 | NRSA02J-272X | MG R | 2.7kΩ 1/10W J |
| | R0636 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0638 | NRSA02J-682X | MG R | 6.8kΩ 1/10W J |
| | R0647-48 | NRSA02J-101X | MG R | 100Ω 1/10W J |
| | **CAPACITOR** | | | |
| | C0101 | NDC21HJ-151X | C CAP. | 150pF 50V J |
| | C0102 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C0103-05 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0106 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0107 | NCB21HK-152X | C CAP. | 1500pF 50V K |
| | C0108 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0109 | NCB21HK-152X | C CAP. | 1500pF 50V K |
| | C0110 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| | C0111-12 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0113 | NDC21HJ-151X | C CAP. | 150pF 50V J |
| | C0114-15 | NCB21HK-472X | C CAP. | 4700pF 50V K |
| | C0116-17 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0118 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0119 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0120 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0121 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0122 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0123 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0124-25 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0126 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0127 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0128 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0129 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0130 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0131 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| | C0132 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| | C0133 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0136 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| | C0137 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0139 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0140 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| | C0141 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| | C0142 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| | C0143 | QENC1EM-106Z | BP E CAP. | 10µF 25V M |
| | C0144 | NCF21CZ-105X | C CAP. | 1µF 16V Z |

| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **CAPACITOR** | | | |
| C0145-46 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| C0147 | QETN1CM-477Z | E CAP. | 470µF 16V M |
| C0149 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0150-51 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0152-53 | QETN1HM-105Z | E CAP. | 1µF 50V M |
| C0154-55 | NDC21HJ-680X | C CAP. | 68pF 50V J |
| C0156 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0157-58 | NDC21HJ-680X | C CAP. | 68pF 50V J |
| C0159 | NDC21HJ-561X | C CAP. | 560pF 50V J |
| C0160 | NDC21HJ-102X | C CAP. | 1000pF 50V J |
| C0301 | NDC21HJ-271X | C CAP. | 270pF 50V J |
| C0306-07 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0308 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0310-11 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0312 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0313 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0610 | NDC21HJ-821X | C CAP. | 820pF 50V J |
| C0611-12 | NDC21HJ-470X | C CAP. | 47pF 50V J |
| C0614 | NDC21HJ-180X | C CAP. | 18pF 50V J |
| C0616 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| C0617 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0618 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0619 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0620 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0621-22 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| C0623 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0624 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0625 | NCB21HK-332X | C CAP. | 3300pF 50V K |
| C0626 | NCB21HK-333X | C CAP. | 0.033µF 50V K |
| C0627 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| C0628 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| C0629 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0630-31 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| C0632 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0633 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0634-35 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0636 | NDC21HJ-2ROX | C CAP. | 2.0pF 50V J |
| C0637 | NCB21HK-332X | C CAP. | 3300pF 50V K |
| C0638 | NCB21HK-333X | C CAP. | 0.033µF 50V K |
| C0639 | QETN1HM-106Z | E CAP. | 10µF 50V M |
| C0640 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| C0641 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0642 | NDC21HJ-2ROX | C CAP. | 2.0pF 50V J |
| C0643 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| C0645 | NCB21HK-103X | C CAP. | 0.01µF 50V K |
| C0646 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0647 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| C0648 | NCB21EK-104X | C CAP. | 0.1µF 25V K |
| C0649 | QETN1CM-107Z | E CAP. | 100µF 16V M |
| C0650 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| C0651 | NCB21HK-562X | C CAP. | 5600pF 50V K |
| C0652 | QETN1EM-476Z | E CAP. | 47µF 25V M |
| C0653 | NDC21HJ-221X | C CAP. | 220pF 50V J |
| C0654 | NCB21HK-562X | C CAP. | 5600pF 50V K |
| C0659-60 | NCF21CZ-105X | C CAP. | 1µF 16V Z |
| C0677-78 | NCB21HK-102X | C CAP. | 1000pF 50V K |
| **COIL** | | | |
| L0114 | QQR0716-001Z | LEAD CORE | |
| L0301 | QQL244J-221Z | PEAKING COIL | |
| L0601 | QQL244K-220Z | PEAKING COIL | |
| L0602 | QQL244K-180Z | COIL | 18µH K |
| L0604 | QQL244K-100Z | COIL | 10µH K |
| L0605 | QQL244K-4R7Z | COIL | 4.7µH K |
| **DIODE** | | | |
| D0101-13 | MA3120/M/-X | ZENER DIODE | |
| D0601 | RD8.2E/B2/-T2 | ZENER DIODE | |
| D0602 | MA3062/M/-X | ZENER DIODE | |

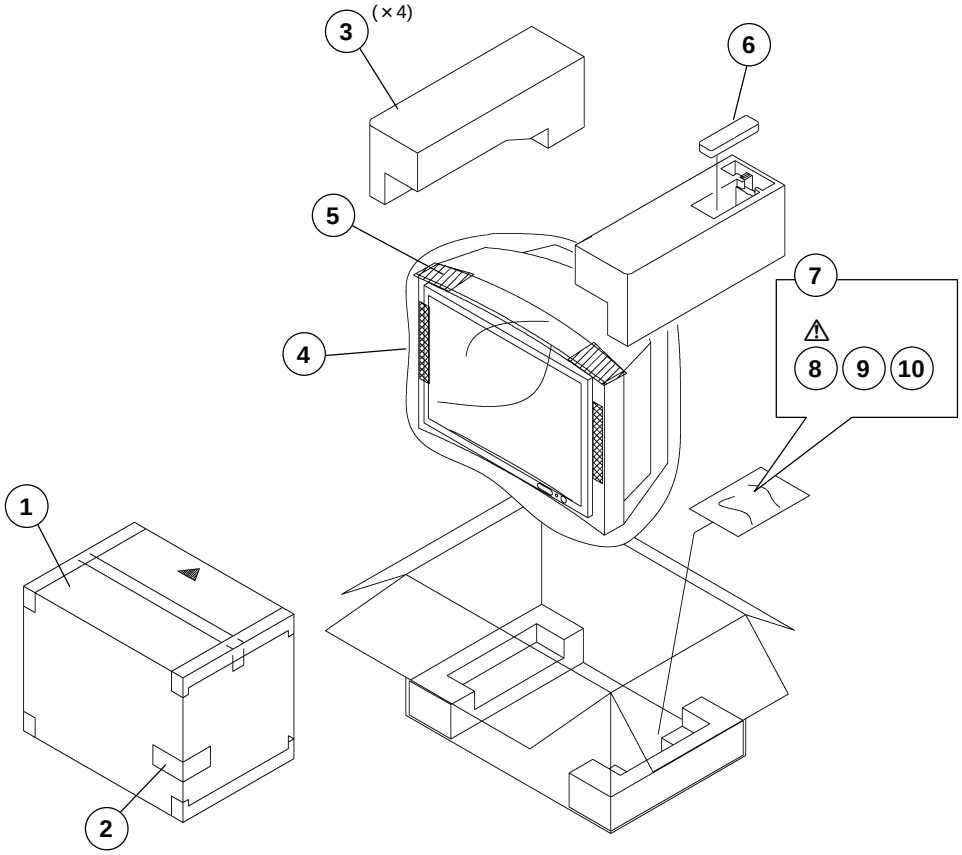
| ⚠ Symbol No. | Part No. | Part Name | Description |
|---|---|---|---|
| **TRANSISTOR** | | | |
| Q0101 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q0102 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q0103 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q0104-07 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0108 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q0109-10 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q0111-12 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0116 | 2SA933AS/QR/-T | SI.TRANSISTOR | |
| Q0118 | 2SC1740S/QR/-T | SI.TRANSISTOR | |
| Q0119-20 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0301 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q0302-03 | DTC124EKA-X | DIGI.TRANSISTOR | |
| Q0304-05 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q0306 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0307 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| Q0308 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0601 | 2SC2412K/QR/-X | SI.TRANSISTOR | |
| Q0602 | DTC323TK-X | DIGI.TRANSISTOR | |
| Q0603 | 2SA1037AK/QR/-X | SI.TRANSISTOR | |
| **IC** | | | |
| IC0101 | CXA2089Q-X | I C | |
| IC0302 | TDA9181T/N1-X | I.C.(MONO-ANA) | |
| IC0602 | NJM2150AM-X | I.C.(MONO-ANA) | |
| IC0603 | MSP3415DQGB3GHX | I.C.(MONO-ANA) | |
| IC0604 | BA4558F-X | I.C.(MONO-ANA) | |
| **OTHERS** | | | |
| J0001 | QNZ0465-001 | PIN CONNECTOR | |
| J0002 | QNZ0463-001 | PIN CONNECTOR | |
| K0101-04 | CE42681-001Y | BEADS CORE | |
| K0301 | CE41433-001Z | BEADS CORE | |
| K0601 | CE41433-001Z | BEADS CORE | |
| LC0601-02 | CE42482-103Y | EMI FILTER | |
| X0601 | CE42546-001Z | CRYSTAL | |

# REMOTE CONTROL UNIT PARTS LIST

| ⚠ Ref.No. | Part No. | Part Name | Description |
|---|---|---|---|
| 1 | 2AA030733 | BATTERY COVER | |
| 2 | 2AA030740 | SLIDE COVER | |



# PACKING




# PACKING PARTS LIST

| ⚠ | Ref.No. | Part No. | Part Name | Description |
|---|---|---|---|---|
| | | **AV28S2EKGR / AV28S2EKBL** | | |
| | 1 | AEM1002-074-E | PACKING CASE | |
| | 2 | AEM1052-016-E | EURO LABEL | [AV28S2EKGR] |
| | 2 | AEM1052-015-E | EURO LABEL | [AV28S2EKBL] |
| | 3 | LC11012-002A-U | CUSHION ASSY | 4pcs in 1set |
| | 4 | AEM1047-002-E | POLY BAG | |
| | 5 | AEM4091-001A-U | PROTECT SHEET | |
| | 6 | RM-C55-1C | REMOCON UNIT | |
| | 7 | AEM3021-002-E | POLY BAG | |
| ⚠ | 8 | LCT0895-001A-U | INST BOOK | |
| | 9 | BT-54013-1E | WARRANTY CARD | |
| | 10 | AEM3148-001-E | REG SHEET | |
| | | **AV28S2EIGR / AV28S2EIBL** | | |
| | 1 | AEM1002-074-E | PACKING CASE | |
| | 2 | AEM1052-013-E | EURO LABEL | [AV28S2EIGR] |
| | 2 | AEM1052-002-E | EURO LABEL | [AV28S2EIBL] |
| | 3 | LC11012-002A-U | CUSHION ASSY | 4pcs in 1set |
| | 4 | AEM1047-002-E | POLY BAG | |
| | 5 | AEM4091-001A-U | PROTECT SHEET | |
| | 6 | RM-C55-1C | REMOCON UNIT | |
| | 7 | AEM3021-002-E | POLY BAG | |
| ⚠ | 8 | LCT0896-001A-U | INST BOOK | |
| | 9 | BT-54013-1E | WARRANTY CARD | |

AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

JVC

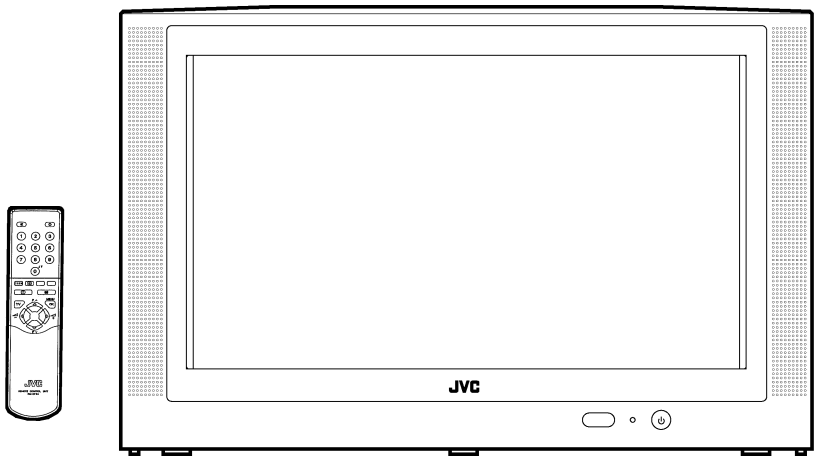
# SCHEMATIC DIAGRAMS

## COLOUR TELEVISION

| BASIC CHASSIS |
| --- |
| JK |

## AV28S2EKGR AV28S2EKBL
## AV28S2EIGR AV28S2EIBL

**CD-ROM No.SML200103**

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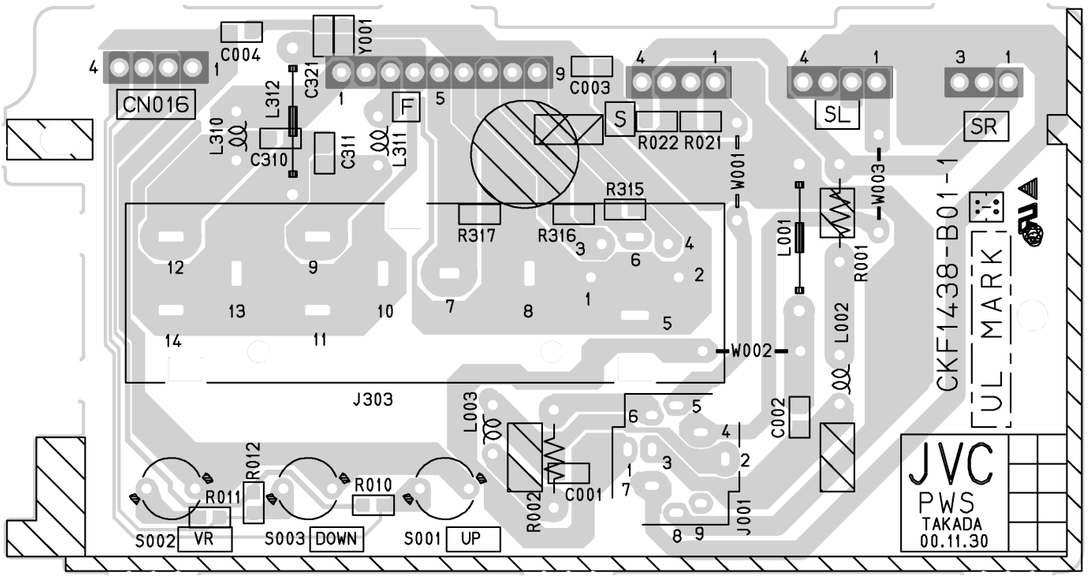
No.51777
Mar. 2001

***SIDE CONTROL PWB PATTERN***

TOP




AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

# AV28S2EKGR/AV28S2EKBL AV28S2EIGR/AV28S2EIBL
# STANDARD CIRCUIT DIAGRAM

## ■ NOTE ON USING CIRCUIT DIAGRAMS

### 1. SAFETY

**The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.**

### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal :PAL Colour bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester :DC 20kΩ/V
(4)Oscilloscope sweeping time :H ⇒ 20μS/div
:V ⇒ 5mS/div
:Others ⇒ Sweeping time is specified
(5)Voltage values :All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

**(1)Resistors**

●Resistance value
No unit :[Ω]
K :[KΩ]
M :[MΩ]
●Rated allowable power
No indication :1/4[W]
Others :As specified
●Type
No indication :Carbon resistor
OMR :Oxide metal film resistor
MFR :Metal film resistor
MPR :Metal plate resistor
UNFR :Uninflammable resistor
FR :Fusible resistor
*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

**(2)Capacitors**

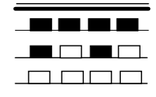
●Capacitance value
1 or higher :[pF]
less than 1 :[μF]
●Withstand voltage
No indication :DC50[V]
AC indicated :AC withstand voltage [V]
Others :DC withstand voltage [V]
*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type
No indication :Ceramic capacitor
MY :Mylar capacitor
MM :Metalized mylar capacitor
PP :Polypropylene capacitor
MPP :Metalized polypropylene capacitor
MF :Metalized film capacitor
TF :Thin film capacitor
BP :Bipolar electrolytic capacitor
TAN :Tantalum capacitor

**(3)Coils**

No unit :[μH]
Others :As specified

**(4)Power Supply**

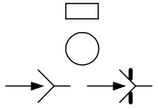

:B1
:B2
:9V
:5V

*Respective voltage values are indicated

**(5)Test point**

:Test point
:Only test point display

**(6)Connecting method**


:Connector
:Wrapping or soldering
:Receptacle

**(7)Ground symbol**

⊥ :LIVE side ground
⏚ :ISOLATED(NEUTRAL) side ground
⏚ :EARTH ground
▽ :DIGITAL ground

### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇**Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**



VP0103
DP2051

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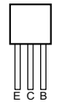
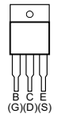
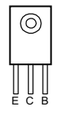
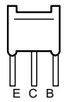
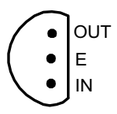
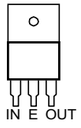
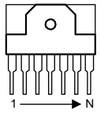
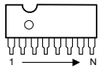
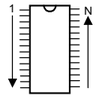
## SEMICONDUCTOR SHAPES

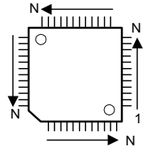
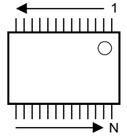
**TRANSISTOR**

| BOTTOM VIEW | FRONT VIEW | | | | TOP VIEW |
|---|---|---|---|---|---|
| |   |   |   |   | CHIP TR |

**IC**

| BOTTOM VIEW | FRONT VIEW | | | TOP VIEW |
|---|---|---|---|---|
|   |   |   |   |   |

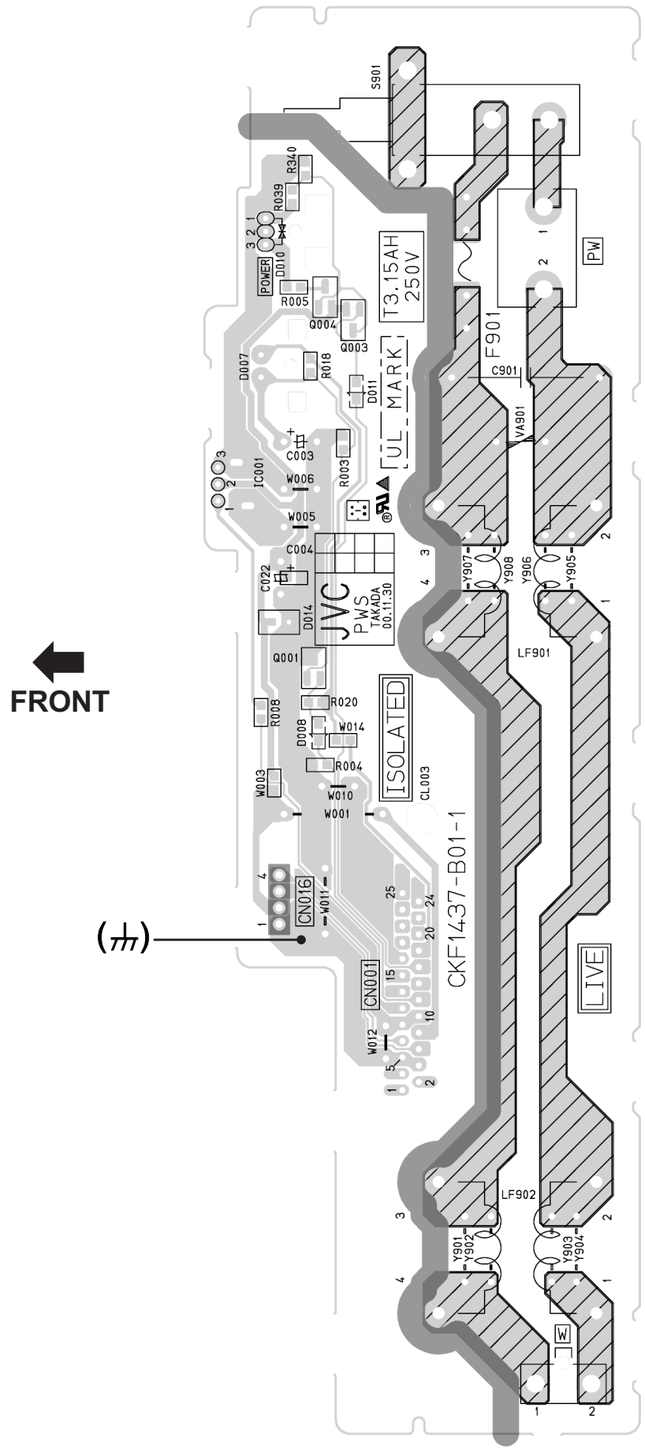
**CHIP IC**

| TOP VIEW | | |
|---|---|---|
|   |   | |

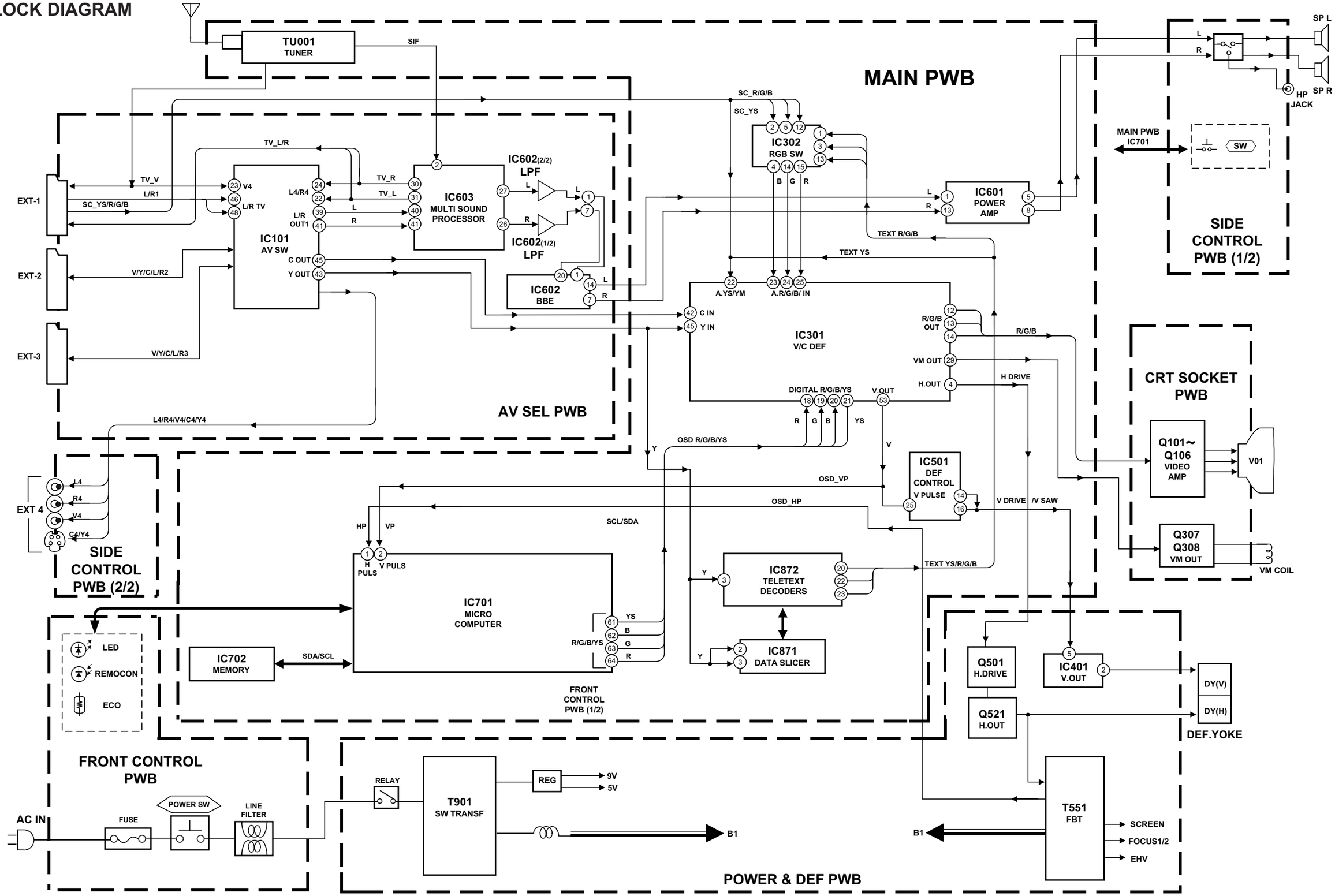




***FRONT CONTROL PWB PATTERN***



# BLOCK DIAGRAM

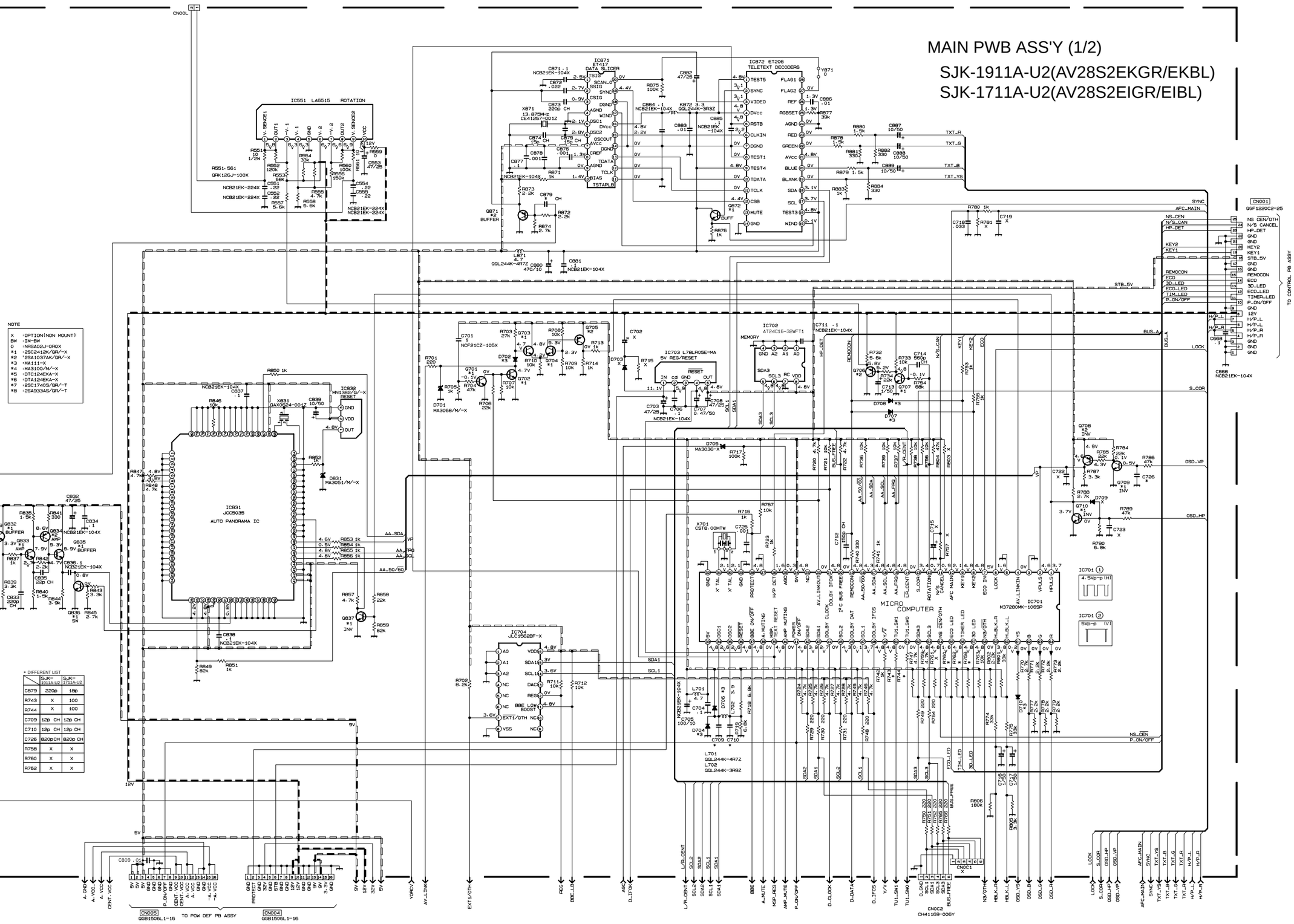


# CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM*

MAIN PWB ASS'Y (1/2)

SJK-1911A-U2(AV28S2EKGR/EKBL)

SJK-1711A-U2(AV28S2EIGR/EIBL)



AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

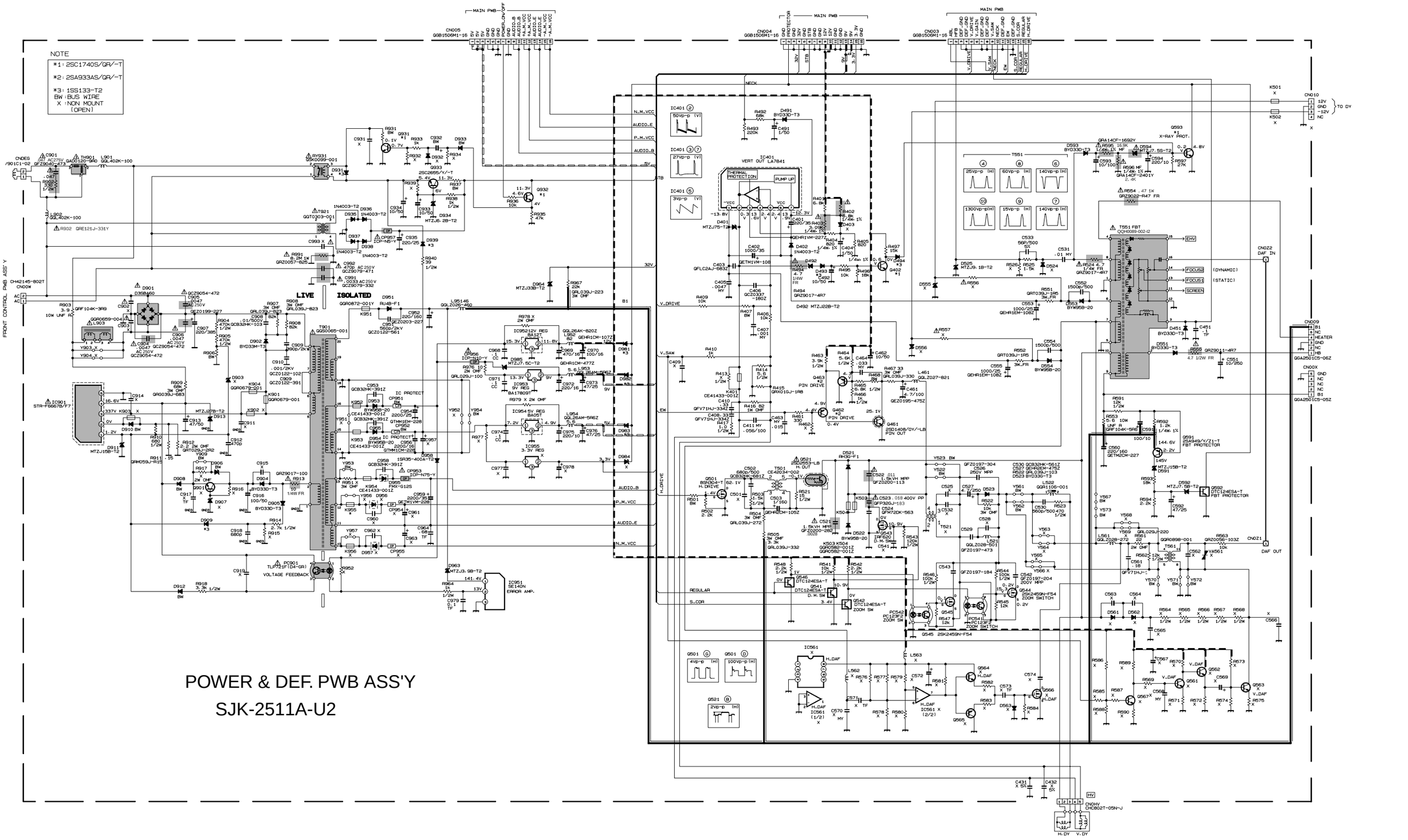
# MAIN PWB ASS'Y (2/2)

SJK-1911A-U2
(AV28S2EKGR/EKBL)
SJK-1711A-U2
(AV28S2EIGR/EIBL)

* DIFFERENCE LIST

| | SJK-1911A-U2 | SJK-1711A-U2 |
|---|---|---|
| R327 | 0 | 470 |
| L306 | X | 2QL244K-330Z |
| C330 | X | 39p CH |
| Q308 | X | *5 |
| TU001 | QAU0189-002 | QAU0186-003 |
| CN012 | X | X |
| R420 | 18k | 18k |
| R690 | 27 | 27 |
| R002 | X | 0 |
| R003 | X | 0 |
| R009 | X | 100K |
| R010 | X | 100K |
| R608 | 18k | 18k |
| R609 | 18k | 18k |
| Y612 | X | X |
| Y613 | X | X |
| CN015 | QAA0501-042 | QGA2501-042 |

## *POWER & DEF PWB CIRCUIT DIAGRAM*




POWER & DEF. PWB ASS'Y

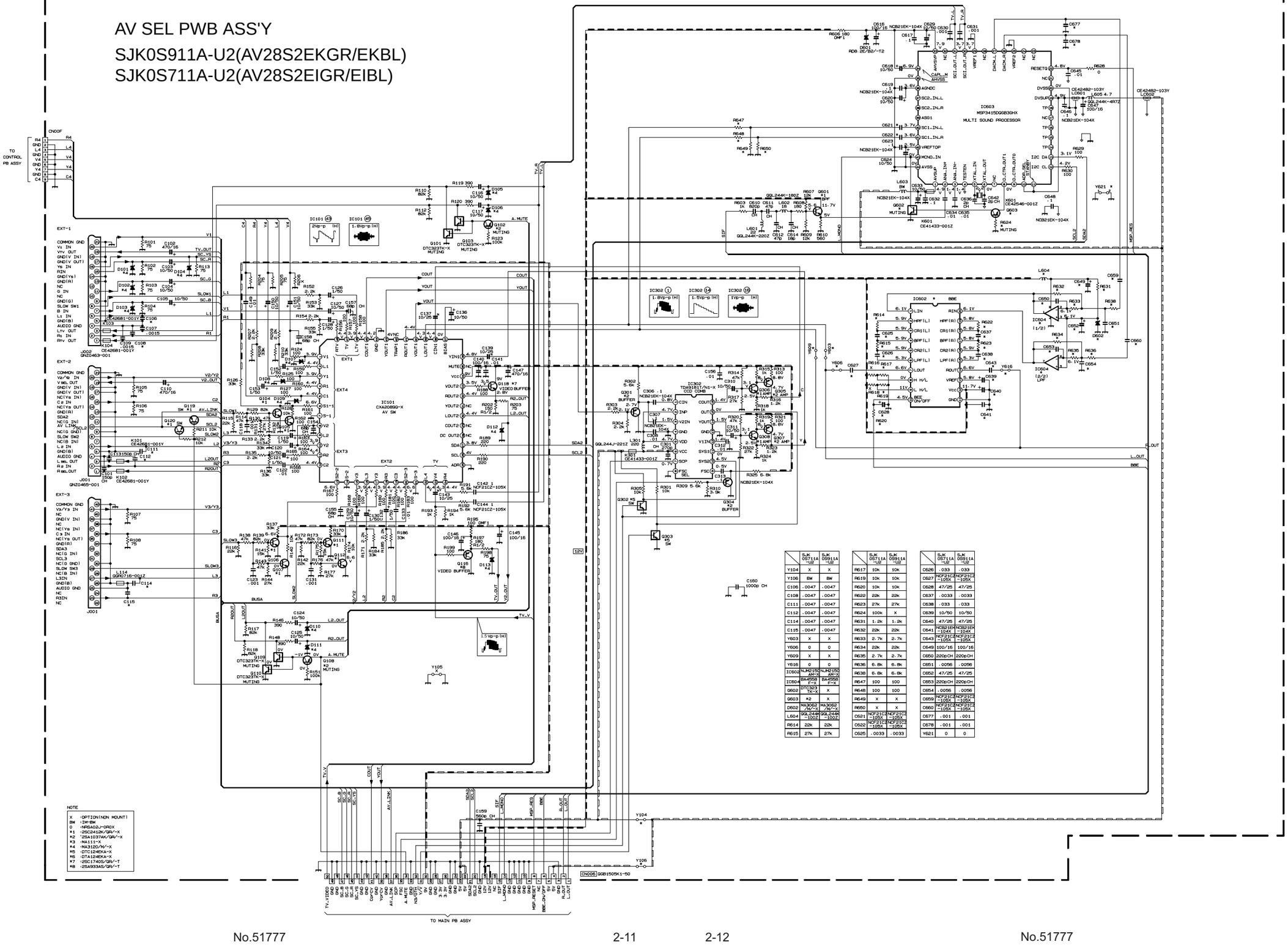
SJK-2511A-U2

***AV SEL. PWB CIRCUIT DIARAM***

AV SEL PWB ASS'Y

SJK0S911A-U2(AV28S2EKGR/EKBL)

SJK0S711A-U2(AV28S2EIGR/EIBL)




NOTE

| | |
|---|---|
| X | :OPTION(NON MOUNT) |
| BW | :1M-BW |
| 0 | :NRSA02J-0R0X |
| #1 | :2SC2412K/QR/-X |
| #2 | :2SA1037AK/QR/-X |
| #3 | :MA111-X |
| #4 | :MA3120/M/-X |
| #5 | :DTC124EKA-X |
| #6 | :DTA124EKA-X |
| #7 | :2SC1740S/QR/-T |
| #8 | :2SA933AS/QR/-T |

| | SJK 0S711A -U2 | SJK 0S911A -U2 |
|---|---|---|
| Y104 | X | X |
| Y105 | BW | BW |
| C106 | .0047 | .0047 |
| C108 | .0047 | .0047 |
| C111 | .0047 | .0047 |
| C112 | .0047 | .0047 |
| C114 | .0047 | .0047 |
| C115 | .0047 | .0047 |
| Y603 | X | X |
| Y606 | 0 | 0 |
| Y609 | X | X |
| Y616 | 0 | 0 |
| IC602 | NJM2150 AM-X | NJM2150 AM-X |
| IC604 | BA4558 F-X | BA4558 F-X |
| Q602 | DTC323 TK-X | X |
| Q603 | #2 | X |
| D602 | MA3062 /M/-X | MA3062 /M/-X |
| L604 | GQL244K -100Z | GQL244K -100Z |
| R614 | 22k | 22k |
| R615 | 27k | 27k |

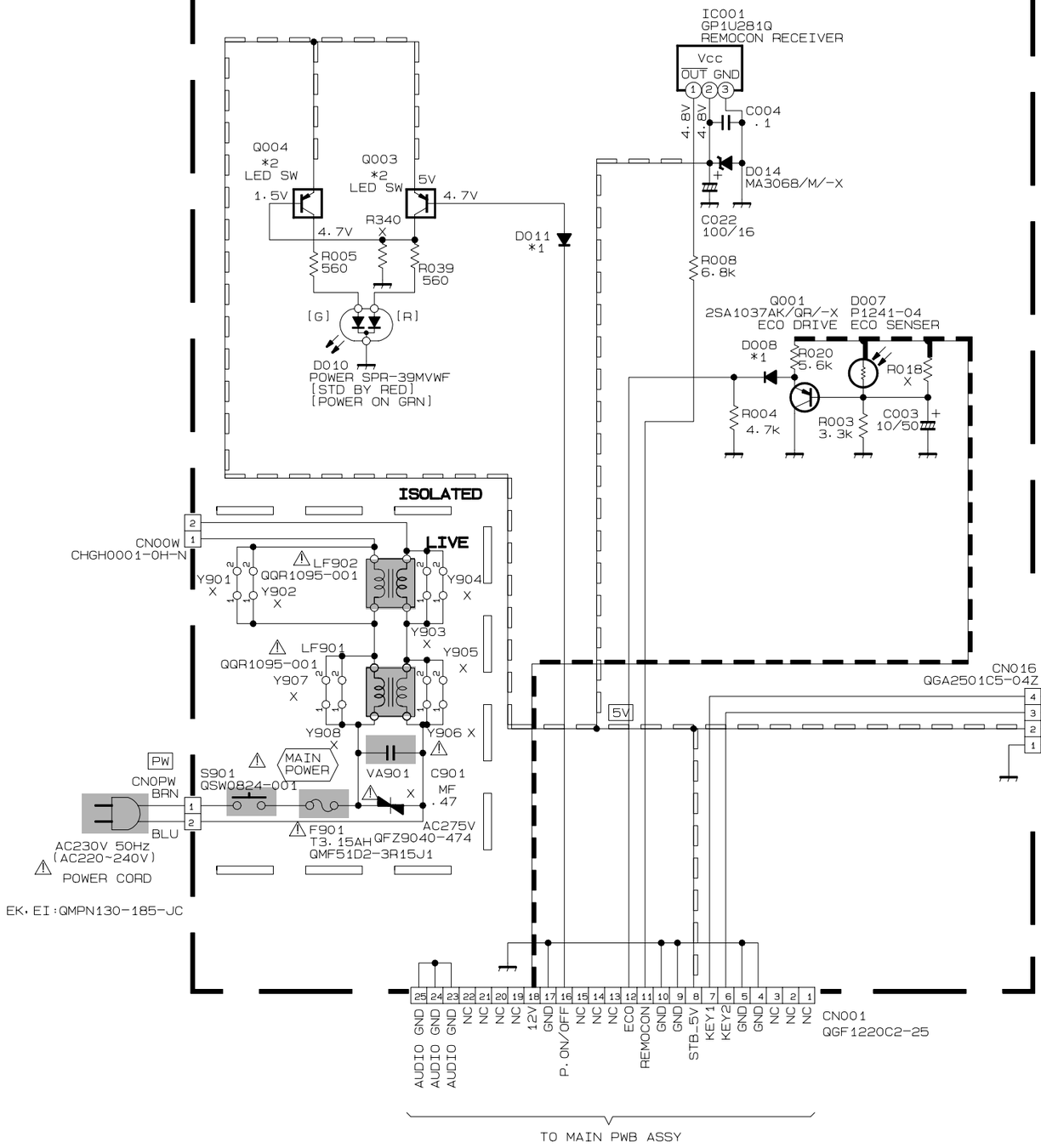
| | SJK 0S711A -U2 | SJK 0S911A -U2 |
|---|---|---|
| R617 | 10k | 10k |
| R619 | 10k | 10k |
| R620 | 10k | 10k |
| R622 | 22k | 22k |
| R623 | 27k | 27k |
| R624 | 100k | x |
| R631 | 1.2k | 1.2k |
| R632 | 22k | 22k |
| R633 | 2.7k | 2.7k |
| R634 | 22k | 22k |
| R635 | 2.7k | 2.7k |
| R636 | 6.8k | 6.8k |
| R638 | 6.8k | 6.8k |
| R647 | 100 | 100 |
| R648 | 100 | 100 |
| R649 | X | X |
| R650 | X | X |
| C621 | NCF21CZ -105X | NCF21CZ -105X |
| C622 | NCF21CZ -105X | NCF21CZ -105X |
| C625 | .0033 | .0033 |

| | SJK 0S711A -U2 | SJK 0S911A -U2 |
|---|---|---|
| C626 | .033 | .033 |
| C627 | NCF21CZ -105X | NCF21CZ -105X |
| C628 | 47/25 | 47/25 |
| C637 | .0033 | .0033 |
| C638 | .033 | .033 |
| C639 | 10/50 | 10/50 |
| C640 | 47/25 | 47/25 |
| C641 | NCB21EK -104X | NCB21EK -104X |
| C643 | NCF21CZ -105X | NCF21CZ -105X |
| C649 | 100/16 | 100/16 |
| C650 | 220pCH | 220pCH |
| C651 | .0056 | .0056 |
| C652 | 47/25 | 47/25 |
| C653 | 220pCH | 220pCH |
| C654 | .0056 | .0056 |
| C659 | NCF21CZ -105X | NCF21CZ -105X |
| C660 | NCF21CZ -105X | NCF21CZ -105X |
| C677 | .001 | .001 |
| C678 | .001 | .001 |
| Y621 | 0 | 0 |

***FRONT CONTROL PWB CIRCUIT DIAGRAM***

FRONT CTRL PWB ASS'Y

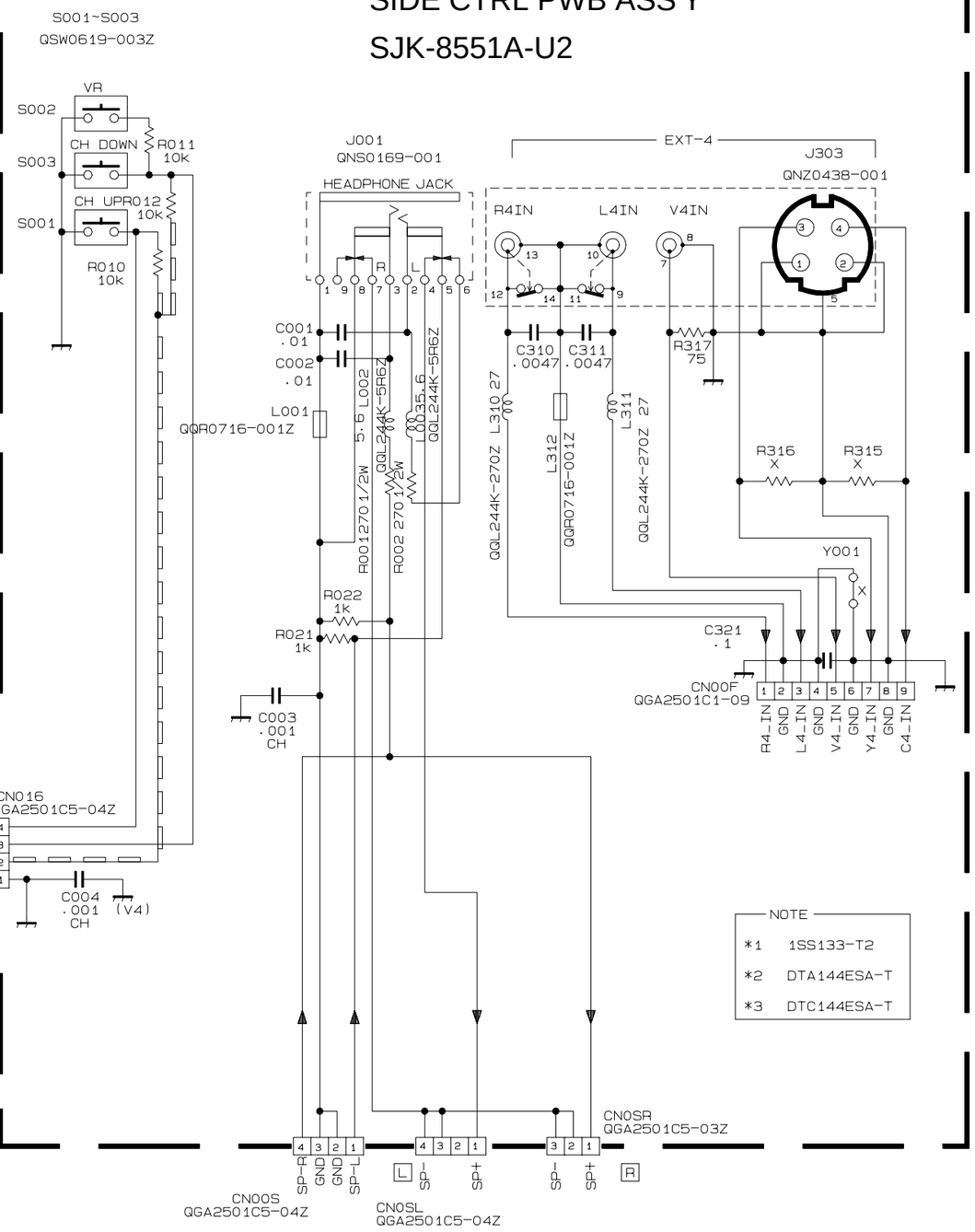
SJK-8511A-U2



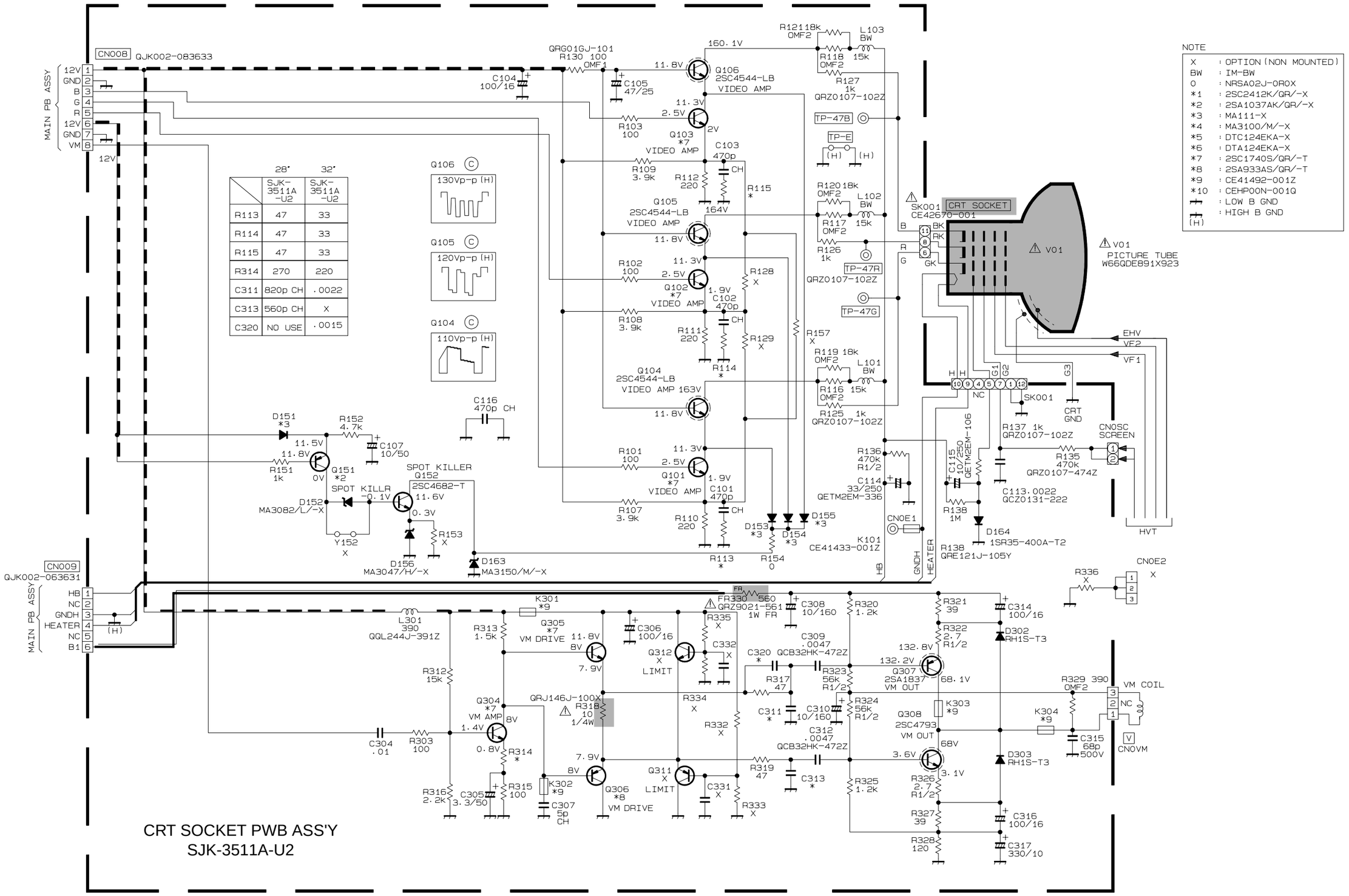

***SIDE CONTROL PWB CIRCUIT DIAGRAM***

SIDE CTRL PWB ASS'Y

SJK-8551A-U2



## CRT SOCKET PWB CIRCUIT DIAGRAM

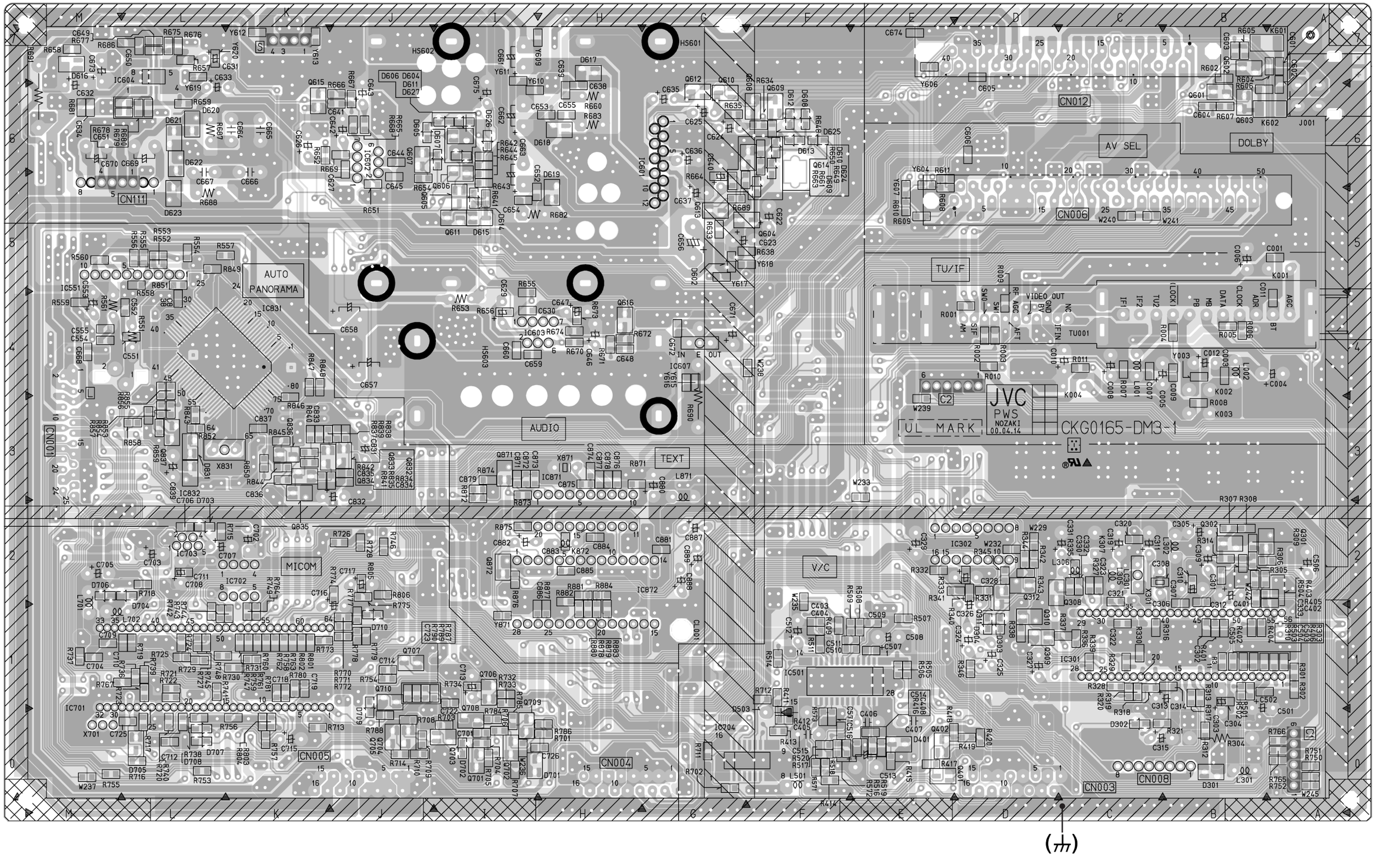



CRT SOCKET PWB ASS'Y
SJK-3511A-U2

## PATTERN DIAGRAMS

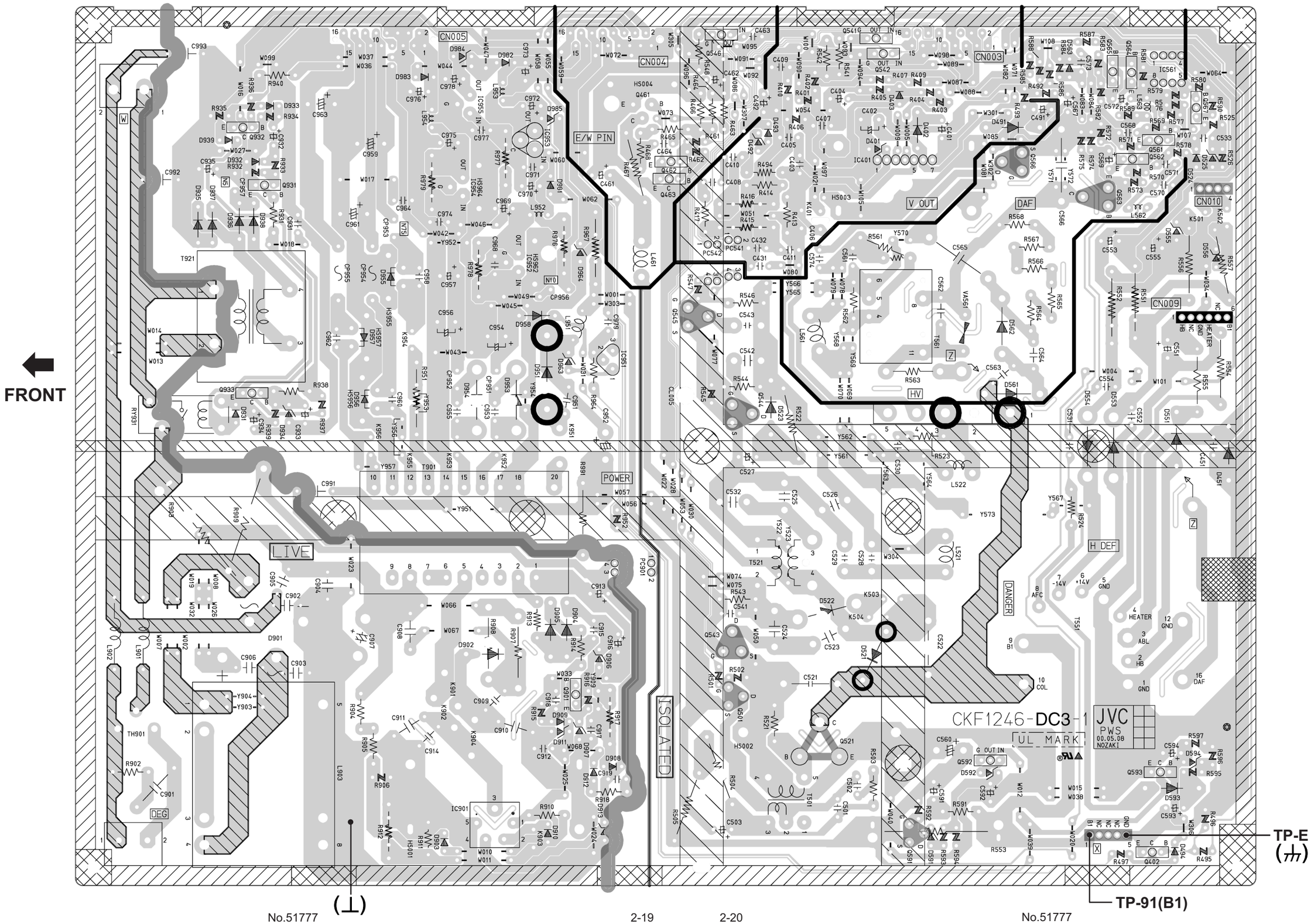
***MAIN PWB PATTERN***

**FRONT**



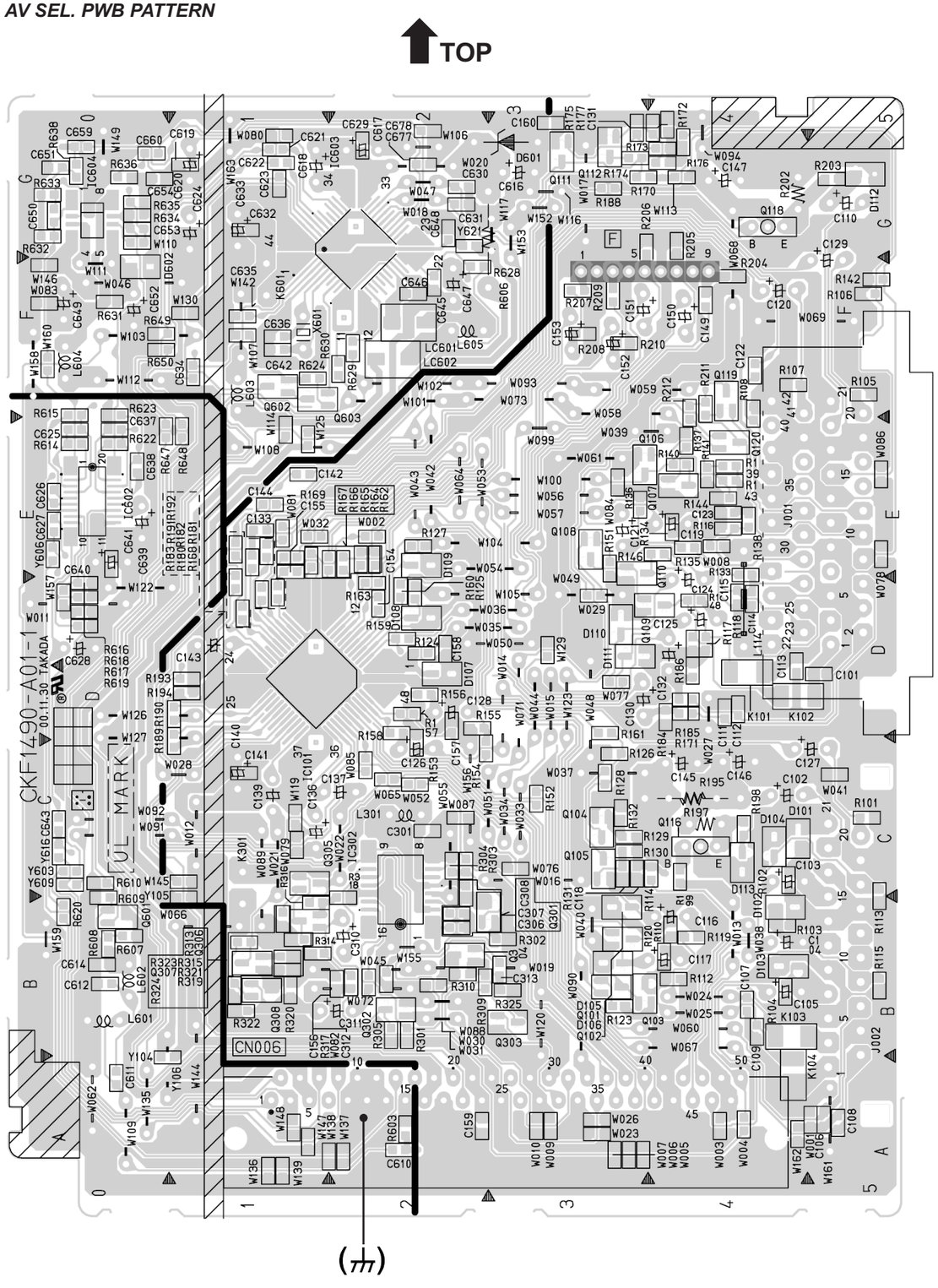
AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

***POWER & DEF PWB PATTERN***



AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

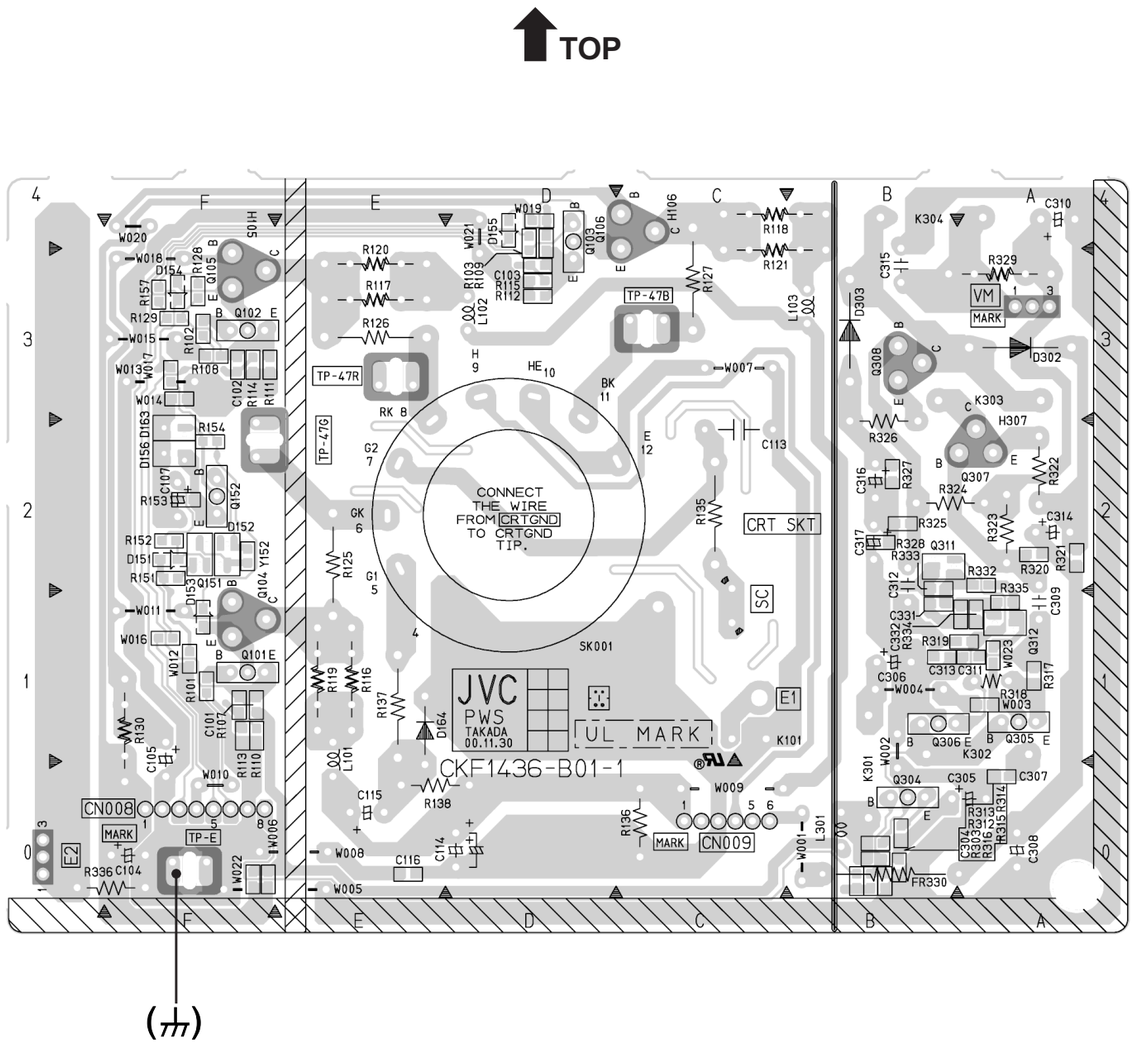
***AV SEL. PWB PATTERN***






AV28S2EKGR
AV28S2EKBL
AV28S2EIGR
AV28S2EIBL

***CRT SOCKET PWB PATTERN***



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